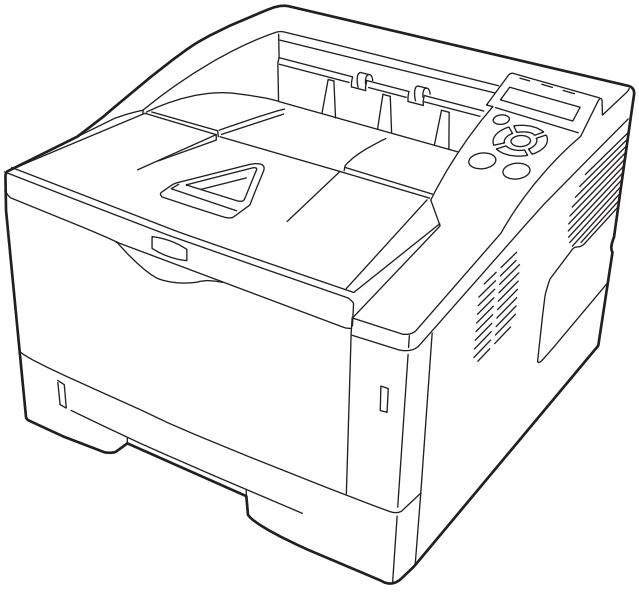
P-3521DN

Operation Guide



This Operation Guide is for model P-3521DN.

Note This Operation Guide contains information that corresponds to using both the inch and metric versions of these machines.

The inch versions of these machines are shown in the screens in this guide. If you are using the metric version, use the messages provided for the inch version as reference only. In the body text, only the inch messages are given if these versions differ only in capitalization. When there is even a slight difference in the message, we have listed the information for the inch version followed, in brackets, by the corresponding information for the metric version.

This Operation Guide is intended to help you operate the machine correctly, perform routine maintenance and take a simple troubleshooting action as necessary, so that you can always use the machine in good condition.

Please read this Operation Guide before you start using the machine, and keep it close to the machine for easy reference.

We recommend the use of our own brand supplies. We will not be liable for any damage caused by the use of third party supplies in this machine.

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Legal and Safety Information

Please read this information before using your machine. This chapter provides information on the following topics:

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Legal Information

CAUTION NO LIABILITY IS ASSUMED FOR ANY DAMAGE CAUSED BY IMPROPER INSTALLATION.

Notice on Software

SOFTWARE USED WITH THIS PRINTER MUST SUPPORT THE PRINTER'S EMULATION MODE. The printer is factory-set to emulate the PCL. The emulation mode can be changed.

Notice

The information in this guide is subject to change without notification. Additional pages may be inserted in future editions.

The user is asked to excuse any technical inaccuracies or typographical errors in the present edition.No responsibility is assumed if accidents occur while the user is following the instructions in this guide. No responsibility is assumed for defects in the printer's firmware (contents of its read-only memory).

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Compliance and Conformity

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- The use of a non-shielded interface cable with the referenced device is prohibited.

CAUTION — The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions; (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

* The above warning is valid only in the United States of America.

Safety Information

Laser Safety

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation. Since radiation emitted inside the printer is completely confined within protective housings and external covers, the laser beam cannot escape from the printer during any phase of user operation.

Laser Notice

This printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 825.

DANGER CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Radio Frequency Transmitter

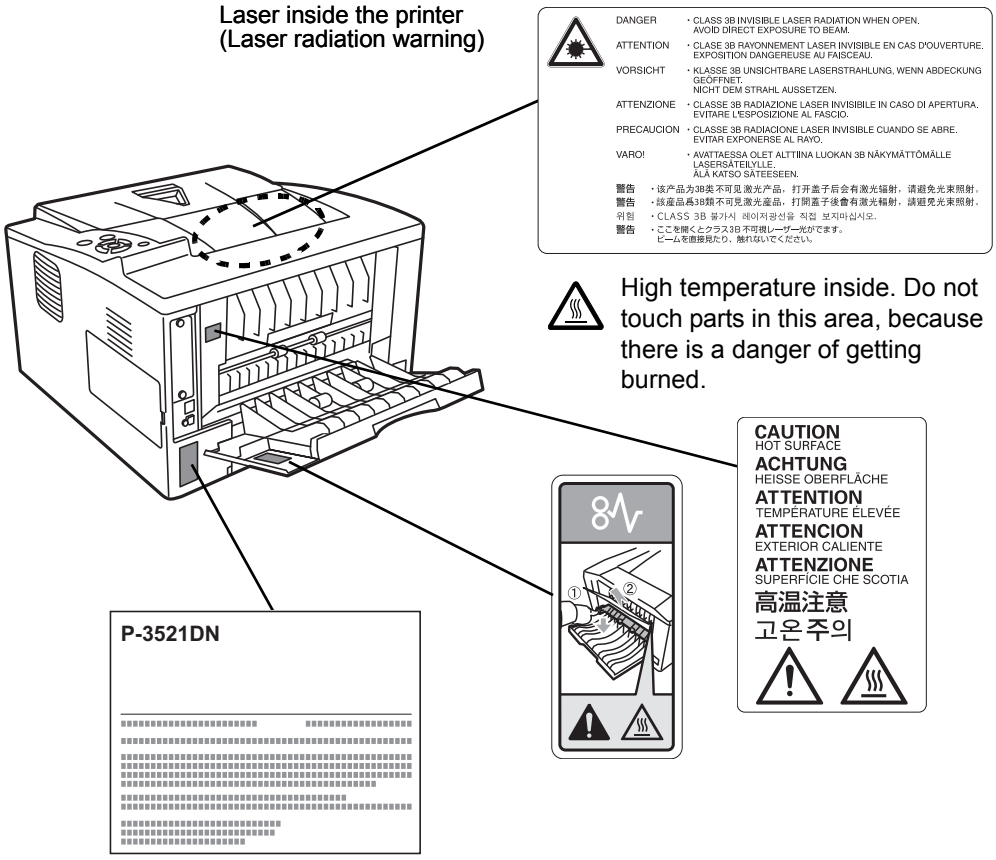
This machine contains a transmitter module. We, the manufacturer hereby declare that this equipment (page printer), model P-3521DN is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Radio Tag Technology

In some countries, the radio tag technology used in this equipment to identify the toner container may be subject to authorization, and the use of this equipment may consequently be restricted.

Caution Labels

The printer bears any of the following labels.


Laser inside the printer
(Laser radiation warning)
DANGER
・CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ATTENTION
・CLASE 3B RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
VORSICHT
・KLASSE 3B UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENZIONE
・CLASSE 3B RADIAZIONE LASER INVISIBILE IN CASO DI APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.
PRECAUCION
・CLASE 3B RADIACIONE LASER INVISIBLE CUANDO SE ABRE. EVITAR EXPONERSE AL RAYO.
VARO!
・AVATTAESSA OLET ALTTIINA LUOKAN 3B NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
警告 ・该产品为3B类不可见激光产品，打开盖子后会有激光辐射，请避免光束照射。
警告 ・該產品爲3B類不可見激光產品，打開蓋子後會有激光輻射，請避免光束照射。
위험 ・CLASS 3B 불가시 레이저광선을 직접 보지마십시오.
警告 ・ここを開くとクラス3B 不可視レーザー光がでます。ビームを直接見たり、触れないでください。
High temperature inside. Do not touch parts in this area, because there is a danger of getting burned.
CAUTION
HOT SURFACE
ACHTUNG
HEISSE OBERFLÄCHE
ATTENTION
TEMPÉRATURE ÉLEVÉE
ATTENCION
EXTERIOR CALIENTE
ATTENZIONE
SUPERFICIE CHE SCOTIA
高温注意
고온주의
P-3521DN

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured after August 1, 1976. Compliance is mandatory for products marketed in the United States. A label indicating compliance with the CDRH regulations must be attached to laser products marketed in the United States.

Ozone Concentration

These printers generate ozone gas (O_3), which may concentrate in the place of installation and cause an unpleasant smell. To minimize the concentration of ozone gas to less than 0.1ppm, we recommend you not to install the printer in a confined area where ventilation is blocked.

Canadian Department of Communications Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité aux normes du ministere des Communications du Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

EN ISO 7779

Maschinenlärminformations-Verordnung 3. GPSGV, 06.01.2004: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN ISO 7779.

EK1-ITB 2000

Das Gerät ist nicht für die Benutzung im unmittelbaren Gesichtsfeld am Bildschirmarbeitsplatz vorgesehen. Um störende Reflexionen am Bildschirmarbeitsplatz zu vermeiden, darf dieses Produkt nicht im unmittelbaren Gesichtsfeld platziert werden.

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Safety Instructions Regarding the Disconnection of Power

Caution: The power plug is the main isolation device! Other switches on the equipment are only functional switches and are not suitable for isolating the equipment from the power source.

VORSICHT: Der Netzstecker ist die Hauptisoliervorrichtung! Die anderen Schalter auf dem Gerät sind nur Funktionsschalter und können nicht verwendet werden, um den Stromfluß im Gerät zu unterbrechen.

Energy Saving Control Function

The device comes equipped with a Low Power Mode where energy consumption is reduced after a certain amount of time elapses since the device was last used, as well as a Sleep where printer functions remain in a waiting state but power consumption is still reduced to a minimum when there is no activity with the device within a set amount of time.

Low Power Mode

The device automatically enters Low Power Mode when 1 minute has passed since the device was last used. The amount of time of no activity that must pass before Low Power Mode is activated may be lengthened. For more information refer to Low Power Timer (Low Power Mode timer timeout time) section of the Advanced Operation Guide.

Sleep

For Europe

The device automatically enters Sleep when 15 minutes have passed since the device was last used. The amount of time of no activity that must pass before Sleep is activated may be lengthened. For more information, refer to Sleep Timer (Sleep timer timeout setting) section of the Advanced Operation Guide.

Except for Europe

The device automatically enters Sleep when 1 minute has passed since the device was last used. The amount of time of no activity that must pass before Sleep is activated may be lengthened. For more information, refer to Sleep Timer (Sleep timer timeout setting) section of the Advanced Operation Guide.

Automatic 2-Sided Print Function

This device includes 2-sided printing as a standard function. For example, by printing two 1-sided originals onto a single sheet of paper as a 2-sided print, it is possible to lower the amount of paper used. For more information refer to Duplex (Duplex Printing) section of the Advanced Operation Guide.

Printing in duplex mode reduces paper consumption and contributes to the conservation of forest resources. Duplex mode also reduces the amount of paper that must be purchased, and thereby reduces cost. It is recommended that machines capable of duplex printing be set to use duplex mode by default.

Resource Saving - Paper

For the preservation and sustainable use of forest resources, it is recommended that recycled as well as virgin paper certified under environmental stewardship initiatives or carrying recognised ecolabels, which meet EN 12281:2002*1 or an equivalent quality standard, be used.

This machine also supports printing on 64 g/m² paper. Using such paper containing less raw materials can lead to further saving of forest resources.

*1: EN12281:2002 "Printing and business paper - Requirements for copy paper for dry toner imaging processes"

Your sales or service representative can provide information about recommended paper types.

Environmental benefits of "Power Management"

To reduce power consumption when idle, this machine is equipped with a power management function that automatically activates energy-saving mode when the machine is idle for a certain period of time.

Although it takes the machine a slight amount of time to return to READY mode when in energy-saving mode, a significant reduction in energy consumption is possible. It is recommended that the machine be used with the activation time for energy-saving mode set to the default setting.

Energy Star (ENERGY STAR®) Program

We have determined as a participating company in the International Energy Star Program that this product is compliant with the standards laid out in the International Energy Star Program.

ENERGY STAR® is a voluntary energy efficiency program with the goal of developing and promoting the use of products with high energy efficiency in order to help prevent global warming. By purchasing ENERGY STAR® qualified products, customers can help reduce emissions of greenhouse gases during product use and cut energy-related costs.

Symbols

The sections of this guide and parts of the machine marked with symbols are safety warnings meant to protect the user, other individuals and surrounding objects, and ensure correct and safe usage of the machine. The symbols and their meanings are indicated below.

DANGER: Indicates that serious injury or even death will very possibly result from insufficient attention to or incorrect compliance with the related points.

WARNING: Indicates that serious injury or even death may result from insufficient attention to or incorrect compliance with the related points.

CAUTION: Indicates that personal injury or mechanical damage may result from insufficient attention to or incorrect compliance with the related points.

The following symbols indicate that the related section includes safety warnings. Specific points of attention are indicated inside the symbol.

.... [General warning]

.... [Warning of danger of electrical shock]

.... [Warning of high temperature]

The following symbols indicate that the related section includes information on prohibited actions. Specifics of the prohibited action are indicated inside the symbol.

.... [Warning of prohibited action]

.... [Disassembly prohibited]

The following symbols indicate that the related section includes information on actions which must be performed. Specifics of the required action are indicated inside the symbol.

.... [Alert of required action]

.... [Remove the power plug from the outlet]

.... [Always connect the machine to an outlet with a ground connection]

Please contact your service representative to order a replacement if the safety warnings in this Operation Guide are illegible or if the guide itself is missing. (fee required)

⚠ Installation Precautions

Environment

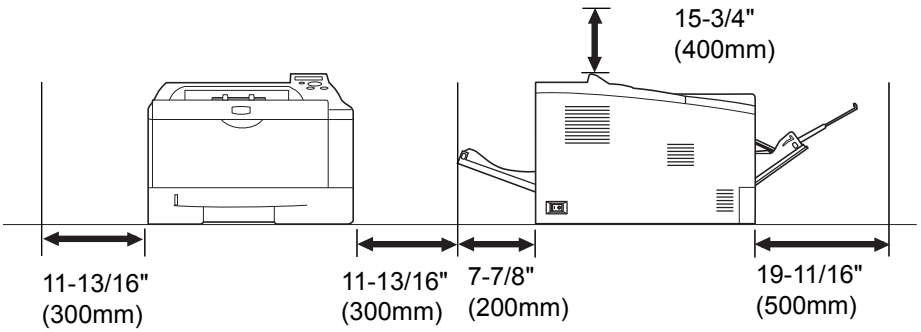
⚠ Caution

Avoid placing the machine on or in locations which are unstable or not level. Such locations may cause the machine to fall down or fall over. This type of situation presents a danger of personal injury or damage to the machine.

Avoid locations with humidity or dust and dirt. If dust or dirt become attached to the power plug, clean the plug to avoid the danger of fire or electrical shock.

Avoid locations near radiators, heaters, or other heat sources, or locations near flammable items, to avoid the danger of fire.

To keep the machine cool and facilitate changing of parts and maintenance, allow access space as shown below. Leave adequate space, especially around the rear cover, to allow air to be properly ventilated out of the printer.



Other Precautions

Adverse environmental conditions may affect the safe operation and performance of the machine. Install in an air-conditioned room (recommended room temperature: around 23°C (73.4°F), humidity: around 60 % RH), and avoid the following locations when selecting a site for the machine.

- Avoid locations near a window or with exposure to direct sunlight.
- Avoid locations with vibrations.
- Avoid locations with drastic temperature fluctuations.
- Avoid locations with direct exposure to hot or cold air.
- Avoid poorly ventilated locations.

During printing, some ozone is released, but the amount does not cause any ill effect to one's health. If, however, the printer is used over a long period of time in a poorly ventilated room or when printing an extremely large number of copies, the smell may become unpleasant. To maintain the appropriate environment for print work, it is suggested that the room be properly ventilated.

Power Supply/Grounding the Machine

⚠ Warning

Do not use a power supply with a voltage other than that specified. Avoid multiple connections in the same outlet. These types of situations present a danger of fire or electrical shock.

Plug the power cord securely into the outlet. If metallic objects come in contact with the prongs on the plug, it may cause a fire or electric shock.

Always connect the machine to an outlet with a ground connection to avoid the danger of fire or electrical shock in case of an electric short. If an earth connection is not possible, contact your service representative.

Other precautions

Connect the power plug to the closest outlet possible to the machine.

The power supply cord is used as the main disconnect device. Ensure that the socket/outlet is located/installed near the equipment and is easily accessible.

Handling of plastic bags

⚠ Warning

Keep the plastic bags that are used with the machine away from children. The plastic may cling to their nose and mouth causing suffocation.

⚠ Precautions for Use

Cautions when using the machine

⚠ Warning

Do not place metallic objects or containers with water (flower vases, flower pots, cups, etc.) on or near the machine. This situation presents a danger of fire or electrical shock should they fall inside.

Do not remove any of the covers from the machine as there is a danger of electrical shock from high voltage parts inside the machine.

Do not damage, break or attempt to repair the power cord. Do not place heavy objects on the cord, pull it, bend it unnecessarily or cause any other type of damage. These types of situations present a danger of fire or electrical shock.

Never attempt to repair or disassemble the machine or its parts as there is a danger of fire, electrical shock or damage to the laser. If the laser beam escapes, there is a danger of it causing blindness.

If the machine becomes excessively hot, smoke appears from the machine, there is an odd smell, or any other abnormal situation occurs, there is a danger of fire or electrical shock. Turn the main power switch off (○) immediately, be absolutely certain to remove the power plug from the outlet and then contact your service representative.

If anything harmful (paper clips, water, other fluids, etc.) falls into the machine, turn the main power switch off (○) immediately. Next, be absolutely certain to remove the power plug from the outlet to avoid the danger of fire or electrical shock. Then contact your service representative.

Do not remove or connect the power plug with wet hands, as there is a danger of electrical shock.

Always contact your service representative for maintenance or repair of internal parts.

⚠ Caution

Do not pull the power cord when removing it from the outlet. If the power cord is pulled, the wires may become broken and there is a danger of fire or electrical shock. (Always grasp the power plug when removing the power cord from the outlet.)

Always remove the power plug from the outlet when moving the machine. If the power cord is damaged, there is a danger of fire or electrical shock.

If the machine will not be used for a short period of time (overnight, etc.), turn the power switch off (O). If it will not be used for an extended period of time (vacations, etc.), remove the power plug from the outlet for safety purposes during the time the machine is not in use.

Always hold the designated parts only when lifting or moving the machine.

For safety purposes, always remove the power plug from the outlet when performing cleaning operations.

If dust accumulates within the machine, there is a danger of fire or other trouble. It is therefore recommended that you consult with your service representative in regard to cleaning of internal parts. This is particularly effective if accomplished prior to seasons of high humidity. Consult with your service representative in regard to the cost of cleaning the internal parts of the machine.

Other precautions

Do not place heavy objects on the machine or cause other damage to the machine.

Do not open the upper front cover, turn off the main power switch, or pull out the power plug during printing.

When lifting or moving the machine, contact your service representative.

Do not touch electrical parts, such as connectors or printed circuit boards. They could be damaged by static electricity.

Do not attempt to perform any operations not explained in this handbook.

Use shielded interface cables.

⚠ Caution

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Cautions when Handling Consumables

⚠ Caution

Do not attempt to incinerate parts which contain toner. Dangerous sparks may cause burns.

Keep parts which contain toner out of the reach of children.

If toner happens to spill from parts which contain toner, avoid inhalation and ingestion, as well as contact with your eyes and skin.

- If you do happen to inhale toner, move to a place with fresh air and gargle thoroughly with a large amount of water. If coughing develops, contact a physician.
- If you do happen to ingest toner, rinse your mouth out with water and drink 1 or 2 cups of water to dilute the contents of your stomach. If necessary, contact a physician.
- If you do happen to get toner in your eyes, flush them thoroughly with water. If there is any remaining tenderness, contact a physician.
- If toner does happen to get on your skin, wash with soap and water.

Do not attempt to force open or destroy parts which contain toner.

Other precautions

After use, always dispose of the Toner Container in accordance with Federal, State and Local rules and regulations.

Store all consumables in a cool, dark location.

If the machine will not be used for an extended period of time, remove the paper from the cassette, return it to its original package and reseal it.

About the Operation Guide

This Operation Guide contains the following chapters:

1 Machine Parts

This chapter explains the names of parts.

2 Loading Paper

This chapter explains paper specifications for this printer and how to load paper into the cassette or MP tray.

3 Printing

This chapter explains how to install the printer driver, print from your PC, and use the application software included in the DVD-ROM.

4 Maintenance

This chapter explains how to replace the toner container and how to care for your printer.

5 Troubleshooting

This chapter explains how to handle printer problems that may occur, such as paper jams.

6 Specifications

This chapter lists the specifications of this printer.

Conventions in This Guide

This manual uses the following conventions.

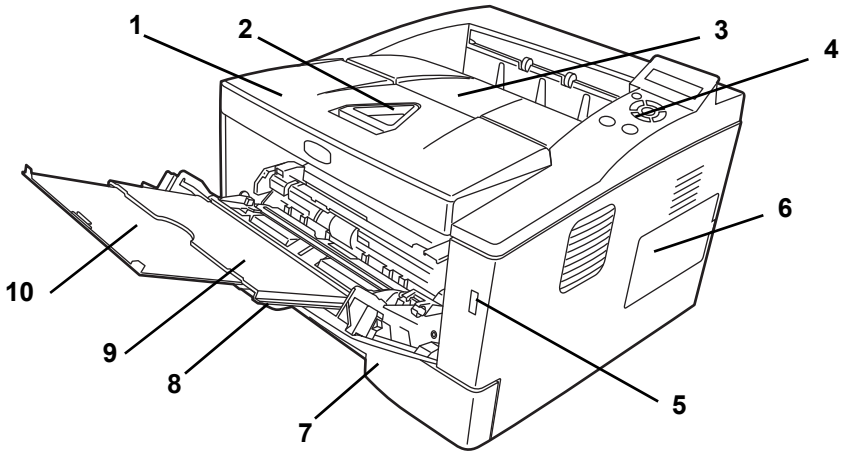
Convention	Description	Example
Italic Typeface	Used to emphasize a key word, phrase or reference to additional information.	Refer to *Print Quality Problems* on page 5-3.
Bold	Used to denote buttons on the software.	To start printing, click **OK**.
Bracket Bold	Used to denote operation panel keys.	Press **[GO]** to resume printing.
Note	Used to provide additional or useful information about a function or feature.	**Note** Do not remove the toner container from the carton until you are ready to install it in the printer.
Important	Used to provide important information.	**IMPORTANT** Take care not to touch the transfer roller (black) during cleaning.
Caution	Cautions are statements that suggest mechanical damage as a result of an action.	**CAUTION** When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the paper jam recovery.
Warning	Used to alert users to the possibility of personal injury.	**WARNING** If you ship the printer, remove and pack the developer unit and drum unit in a plastic bag and ship them separately from the printer.

1 Machine Parts

This chapter identifies machine parts and operation panel keys.

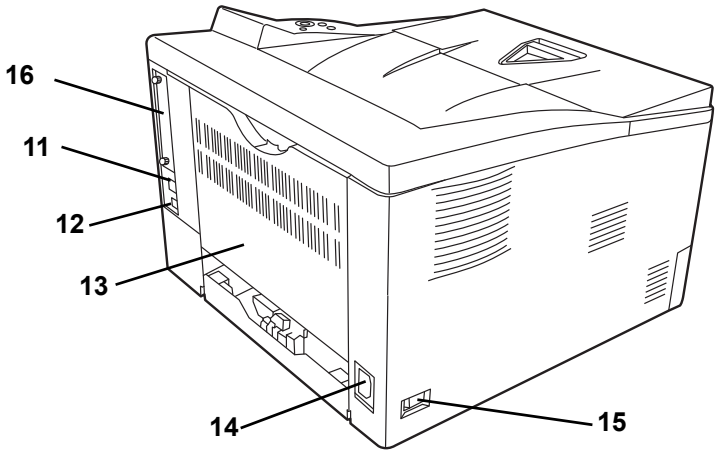
Components at the Front of the Printer **1-2**
Components at the Rear of the Printer **1-2**
Operation Panel **1-3**

Components at the Front of the Printer



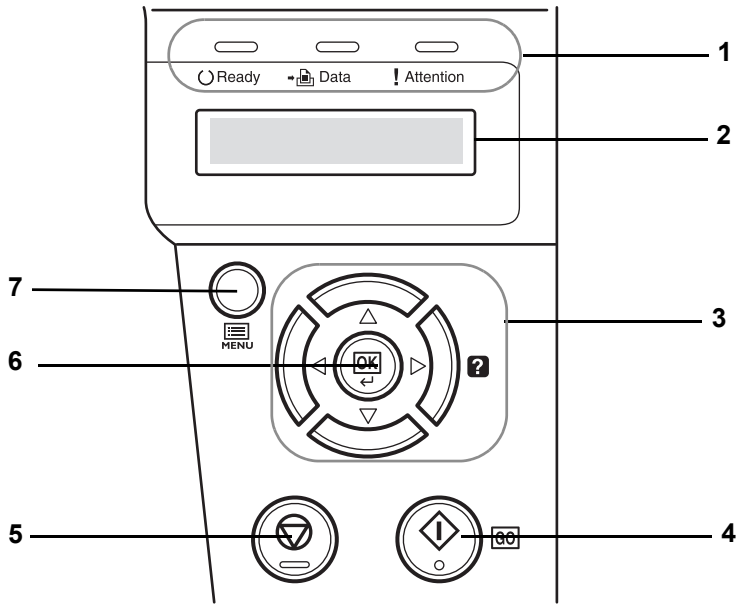
1 Top Cover
2 Paper Stopper
3 Top Tray
4 Operation Panel
5 USB Memory Slot
6 Right Cover
7 Paper Cassette
8 Front Cover
9 MP Tray
10 Subtray

Components at the Rear of the Printer



11 Network Interface Connector
12 USB Interface Connector
13 Rear Cover
14 Power Cord Connector
15 Power Switch
16 Optional Interface Slot Cover

Operation Panel



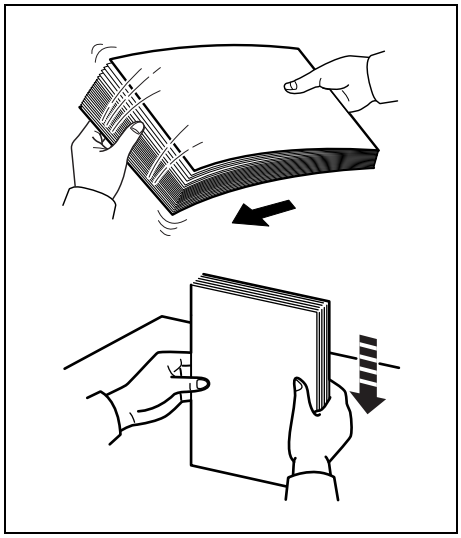
1 Indicators
2 Message Display
3 Cursor Keys
4 **[GO]** Key
5 **[Cancel]** Key
6 **[OK]** Key
7 **[MENU]** Key

2 Loading Paper

This chapter explains how to load paper into the cassette or MP tray.

Preparing the Paper **2-2**
Loading Paper into Cassette **2-2**
Loading Paper into MP (Multi-Purpose) Tray **2-5**

Preparing the Paper



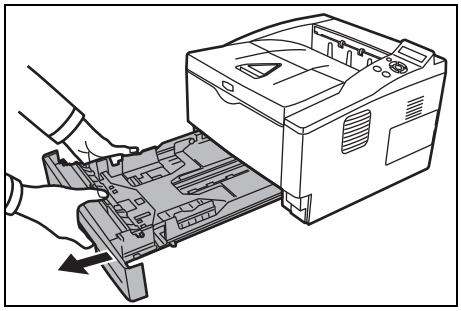
After removing paper from the packaging, fan through the sheets to separate them prior to loading.

If using paper that has been folded or is curled, straighten it prior to loading. Failure to do so may result in a paper jam.

IMPORTANT Ensure paper is not stapled and clips are removed.

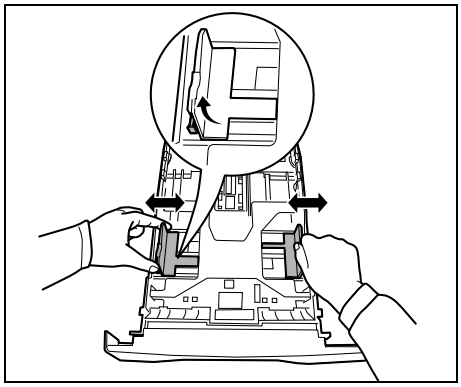
Loading Paper into Cassette

250 sheets of 11 × 8 1/2" or A4 paper (80 g/m²) may be loaded into the Cassette.



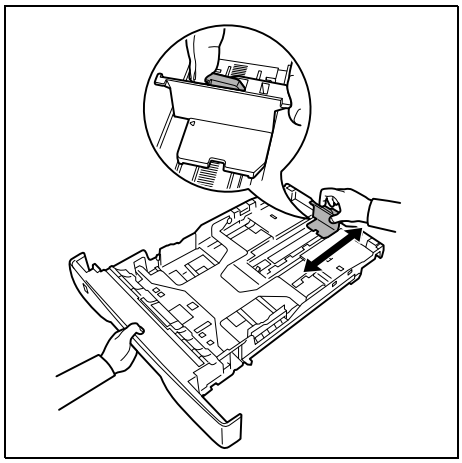
1 Pull the cassette completely out of the printer.

IMPORTANT When pulling the cassette out of the printer, ensure it is supported and does not fall out.

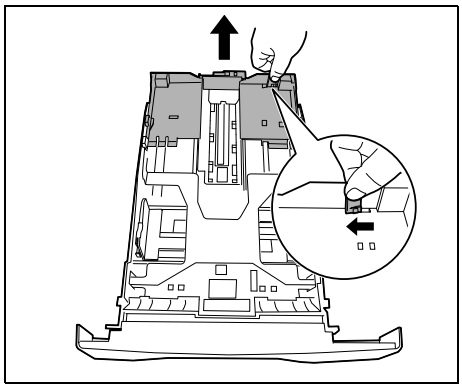


2 Adjust the position of the width guides located on the left and right sides of the cassette. Press the release button on the left guide and slide the guides to the paper size required.

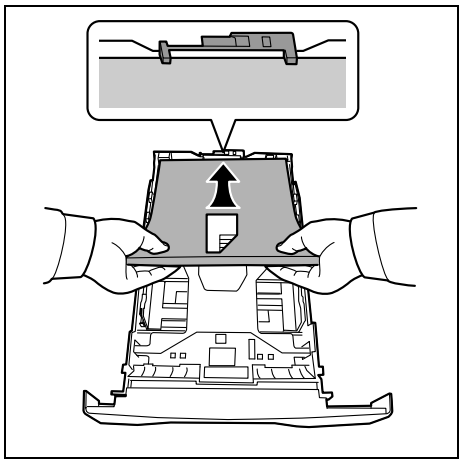
Note Paper sizes are marked on the cassette.



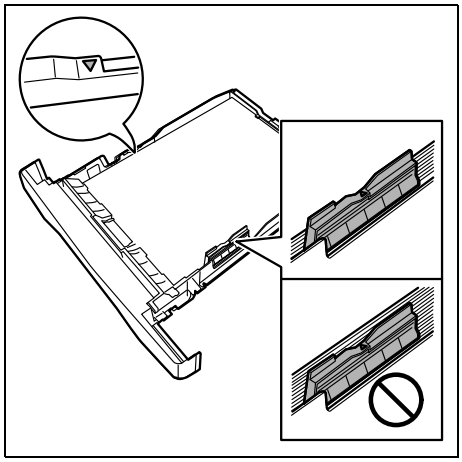
3 Adjust the paper length guide to the paper size required.



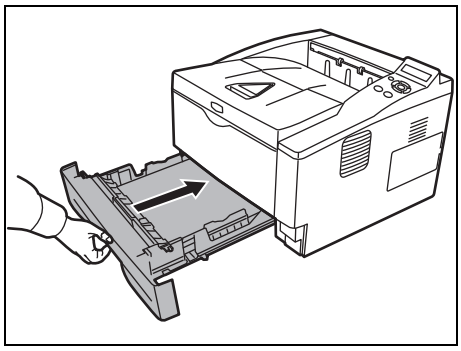
If you are going to use paper that is longer than A4, pull out the extension paper cassette by pushing the release lever one by one and adjust it to the desired paper size.



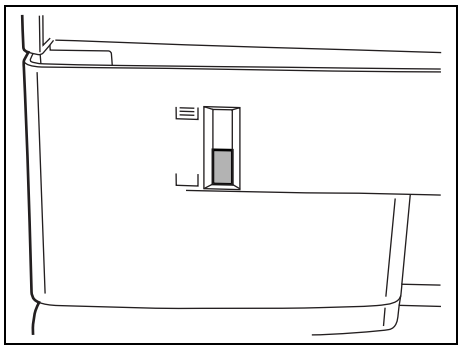
4 Load the paper in the cassette. Ensure the side to be printed is facing down and the paper is not folded, curled, or damaged.



Note Do not load paper above the triangle mark located on the width guide.



5 Insert the paper cassette into the slot in the printer. Push it straight in as far as it will go.

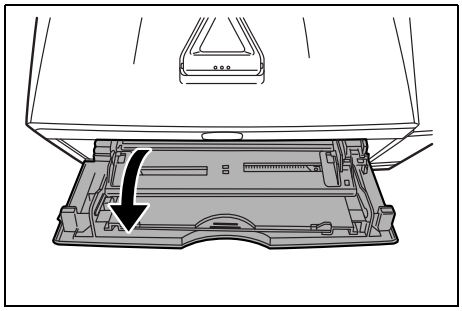


There is a paper gauge on the left side of the front of the paper cassette to indicate the remaining paper supply. When paper is exhausted, the pointer will go down to the level of (empty).

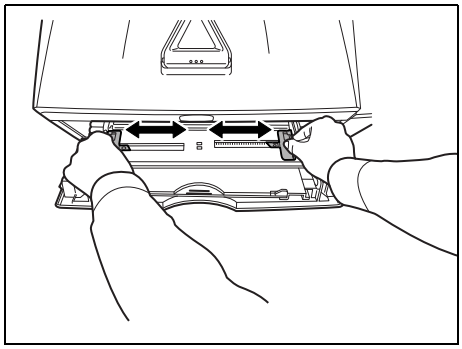
6 Specify the paper size and type for the *cassette* using control panel. For more information, refer to *Advanced Operation Guide*.

Loading Paper into MP (Multi-Purpose) Tray

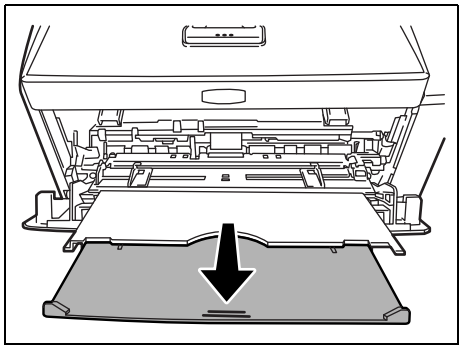
This machine can load up to 50 sheets of 11 × 8 1/2" or A4 paper (80 g/m²) into the MP tray.



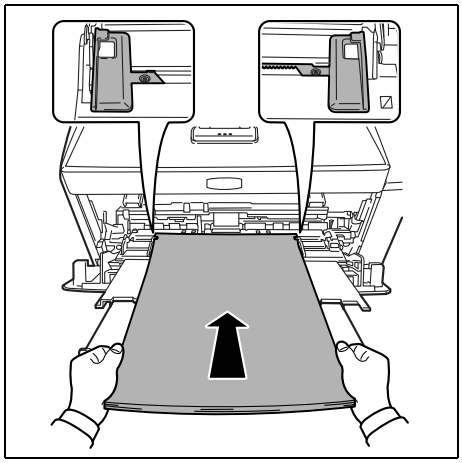
1 Pull the MP tray towards you until it stops.



2 Adjust the position of the paper guides on the MP tray. Standard paper sizes are marked on the MP tray. For standard paper sizes, slide the paper guides to the corresponding mark.



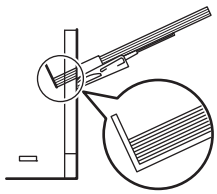
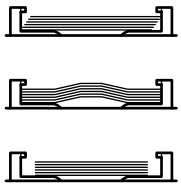
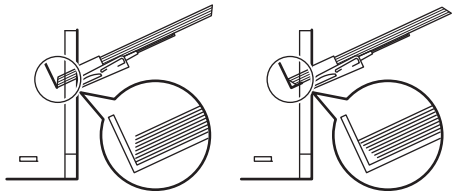
3 Pull out the subtray.

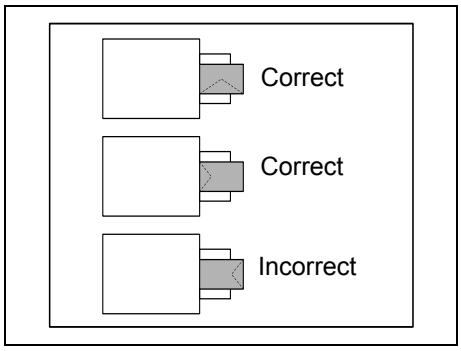


4 Align the paper with the paper guides and insert as far as it will go.

Note Do not load more paper than exceeds the tab of the MP tray.

Note If the paper is considerably curled in one direction, for example, if the paper is already printed on one side, try to roll the paper in the opposite direction to counteract the curl. Printed sheets will then come out flat.

Correct		
Incorrect		

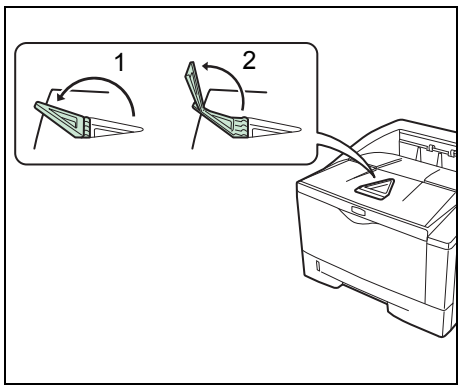


When loading envelope, place with the envelope flap closed and keep the printing side face-up. Insert envelope against the guide with the flap on the front or left side until they stop.

5 Specify the paper size and type for MP tray using control panel. For more information, refer to *Advanced Operation Guide*.

Paper Stopper

Open the paper stopper shown in the figure.



3 Connecting and Printing

This chapter explains how to start up the printer, print from your PC, and use the application software included in the DVD-ROM.

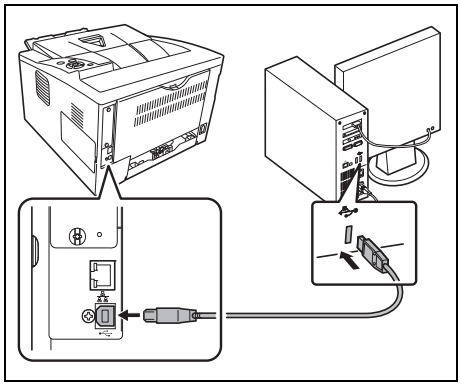
Connections 3-2
Changing Network Interface Parameters 3-4
Printing a Network Interface Status Page 3-6
Embedded Web Server RX 3-7
Installing the Printer Driver 3-14
Printing 3-21
Printing by AirPrint 3-23
Status Monitor 3-24
Energy Saver Function 3-28

Connections

This section explains how to start up the printer.

Connecting the USB Cable

Follow the steps as below for connecting the USB cable.



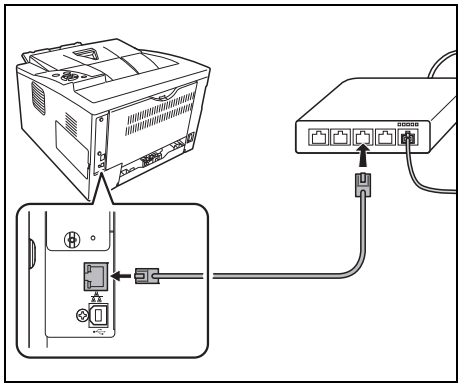
1 Connect the USB cable to the USB Interface Connector.

Note Use a USB cable with a rectangular Type A plug and a square Type B plug. This cable is sold separately.

2 Connect the other end of the USB cable to the computer's USB interface connector.

Connecting the Network Cable

Follow the steps as below for connecting the network cable.



1 Remove the cap attached to the printer.

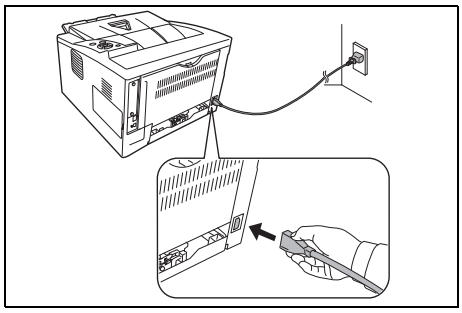
2 Connect the printer to the PC or your network device.

Note Use shielded interface cables. These cables are sold separately.

Connecting the Power Cord

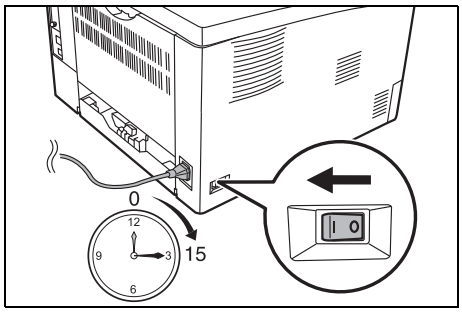
Install the printer close to an AC wall outlet. If an extension cord is used, the total length of the power cord plus extension should be 5 meters (16 feet) or less.

Note Ensure the printer's power switch is off. Only use the power cord supplied with the printer.



1 Connect the power cord to the Power Cord Connector at the rear of the printer.

2 Connect the other end of the power cord to a power outlet.



3 Press the Power Switch to On (|). The printer begins to warm up.

IMPORTANT If you install the starter toner container and switch on the power, after a moment the message `Please wait(Adding toner)` is displayed. When the printer is first switched on after toner installation, there will be a delay of approximately 15 minutes before the printer gets ready to print. Once the **[Ready]** indicator lights, printer installation is complete.

Changing Network Interface Parameters

This printer supports TCP/IP, TCP/IP (IPv6), IPP, SSL Server and the IPSec protocols and Security Level.

The table below shows the items required for each of the settings.

Configure the printer's network parameters as appropriate for your PC and your network environment.

For details of the procedure, refer to the *Using the Operation Panel* section of the *Advanced Operation Guide*.

Note When Embedded Web Server RX is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to *Embedded Web Server RX User Guide*.
If the optional IB-50 or IB-51 is installed then NetWare and AppleTalk settings are possible. For details, refer to *Optional Network* section of the *Advanced Operation Guide*.

Menu	Submenu		Setting
Network	TCP/IP		On/Off
		DHCP	On/Off
		Auto-IP	On/Off
		IP Address	IP address
		Subnet Mask	IP address
		Gateway	IP address
		Bonjour	On/Off
	TCP/IP (IPv6)		On/Off
		RA (Stateless)	On/Off
		DHCPv6	On/Off
Security	I/F Block	USB Host	Block/Unblock
		USB Device	Block/Unblock
		Option I/F	Block/Unblock
		USB Storage	Block/Unblock
	WSD-PRINT		On/Off
	Enhanced WSD		On/Off
	EnhancedWSD (SSL)		On/Off
	IPP		On/Off

Menu	Submenu		Setting
	SSL Server		On/Off
		DES	On/Off
		3DES	On/Off
		AES	On/Off
		IPP over SSL	On/Off
		HTTPS	On/Off
	IPSec		On/Off
	LAN Interface		Auto/ 10BASE-Half/ 10BASE-Full/ 100BASE-Half/ 100BASEFull/ 1000BASE-T
	Security Level		High/Low

Note After all network related settings have been done, turn the machine **OFF** and **ON** again. This is mandatory to make the settings effective!

Printing a Network Interface Status Page

You can print out a status page for the network interface. The network status page shows the network addresses, and other information under various network protocols about the network interface.

Adjust/Maintenance

Adjust/Maintenance is used to adjust the print quality and to carry out printer maintenance.

The options available in Adjust/Maintenance are as follows:

- Restart Printer
- Service

IMPORTANT `Service` is primarily a menu used by service representative for maintenance work. There is no need for customers to use this menu.

1 Press **[MENU]**.

```
Adjust/Maintenance  >
```

2 Press △ or ▽ repeatedly until `Adjust/Maintenance >` appears.

3 Press ▷ while `Adjust/Maintenance >` is displayed.

4 Press △ or ▽ repeatedly until `>Service >` appears.

5 Press ▷.

6 Press △ or ▽ repeatedly until `>>Print Network Status Page` appears.

```
>>Print
 Network Status Page?
```

7 Press **[OK]**. A question mark (`?`) appears.

8 Press **[OK]**. `Processing` appears and a status page is printed out.

9 When printing ends, the display returns to `Ready`.

Embedded Web Server RX

If the machine is connected to the network, you can configure various settings using Embedded Web Server RX.

This section explains how to access Embedded Web Server RX, and how to change security settings and the host name.

For details on Embedded Web Server RX, refer to the *Embedded Web Server RX User Guide*.

Note To fully access the features of the Embedded Web Server RX pages, enter the User Name and Password and click **Login**. Entering the predefined administrator password allows the user to access all pages and Settings on the navigation menu. The factory default setting for the default user with administrator privileges is shown below.

Login User Name	**Admin**
Login Password	**Admin**

* Upper case and lower case letters are distinguished (case sensitive).

Settings that the administrator and general users can configure in Embedded Web Server RXare as follows.

Setting	Description	Administ-rator	General User
Device Information	The machine's structure can be checked. **Configuration**, **Counter**, **About Embedded Web Server RX**	○	○
Job Status	Displays all device information, including print jobs and job log history. **Printing Jobs Status**, **Printing Job Log**	○	○
Device Settings	Configure the advanced settings of the machine. **Paper/Feed/Output**, **Energy Saver/Timer**, **Date/Time**, **System**	○	—
Function Settings	Configure the advanced function settings. **Common/Job Defaults**, **Printer**, **E-mail**	○	—
Network Settings	Configure the network advanced settings. **General**, **TCP/IP**, **Protocol**	○	—
Security Settings	Configure the security advanced settings. **Device Security**, **Network Security**, **Certificates**	○	—
Management Settings	Configure the advanced management settings. **Authentication**, **Notification/Report**, **History Settings**, **SNMP**, **Reset**	○	—

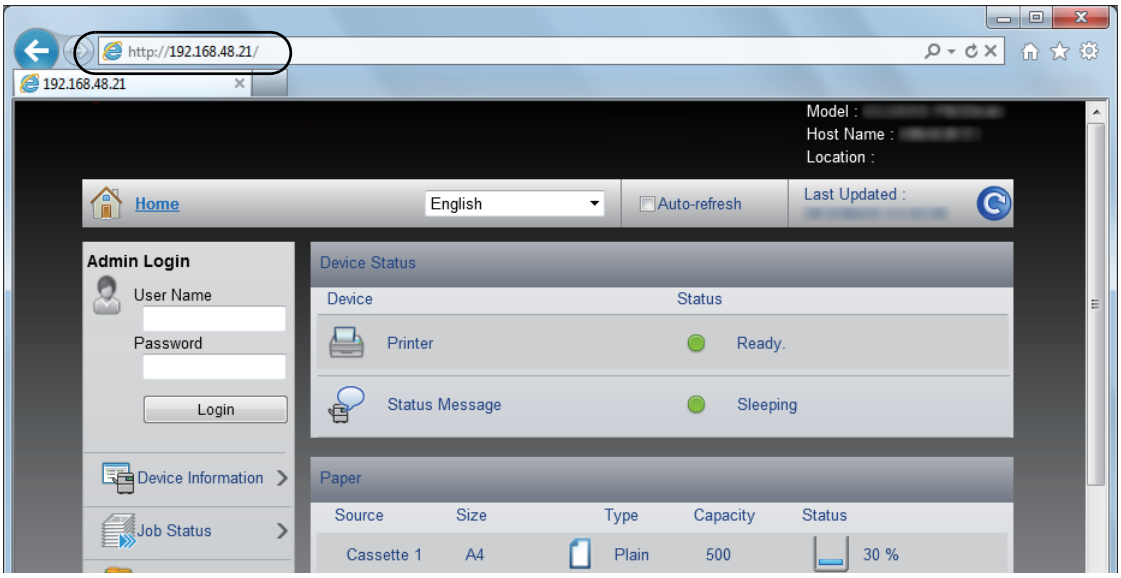
Accessing Embedded Web Server RX

1 Launch your Web browser.

2 In the address or location bar, enter the machine's IP address or the host name.

Examples: https://192.168.48.21/ (for IP address)

https://P001 (if the host name is "P001")



The web page displays basic information about the machine and Embedded Web Server RX as well as their current status.

Note If the screen **There is a problem with this website's security certificate.** is displayed, configure the certificate. For details on Certificates, refer to the *Embedded Web Server RX User Guide*.
You can also continue the operation without configuring the certificate.

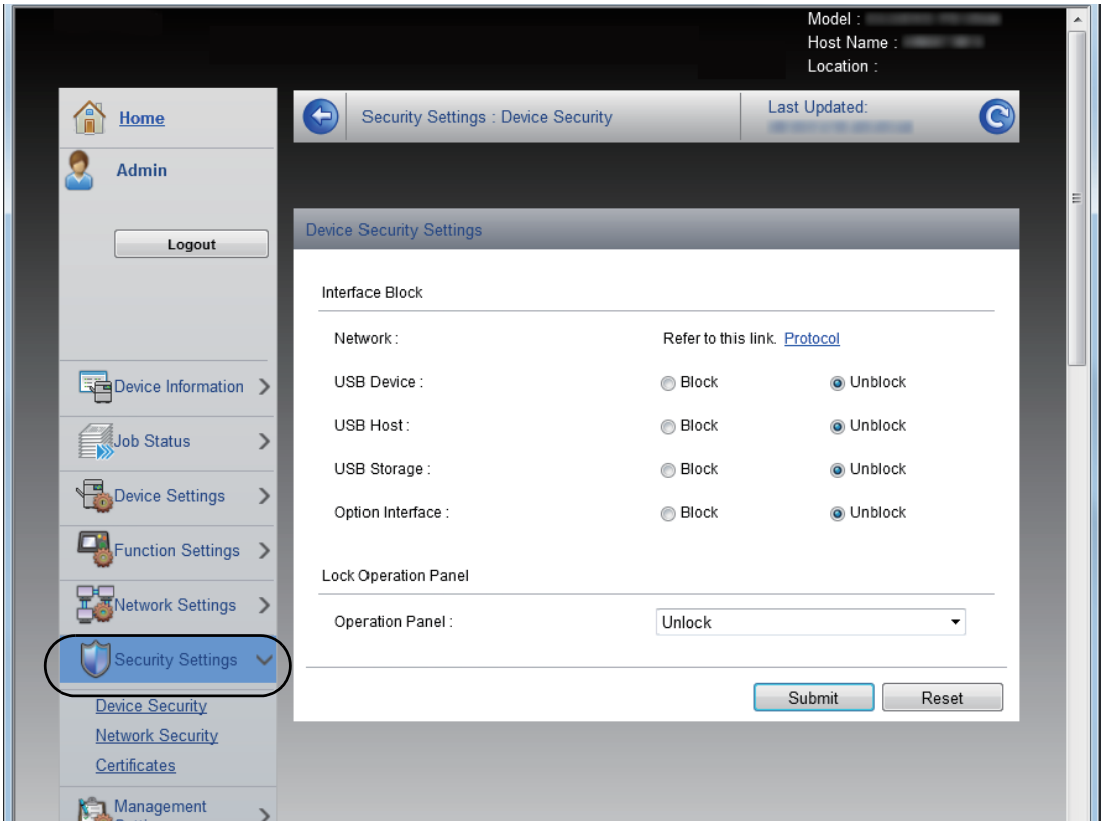
3 Select a category from the navigation bar on the left of the screen. When you log in to the machine as an administrator, you will see **Device Settings**, **Function Settings**, **Network Settings**, **Security Settings**, and **Management Settings**.

Changing Security Settings

This section explains how to change the security settings.

Access Embedded Web Server RX by referring to ***Accessing Embedded Web Server RX*** on page ***3-8***.

1 From the **Security Settings** menu, select the setting you want to configure. The configurable settings are **Device Security**, **Network Security**, and **Certificates**.



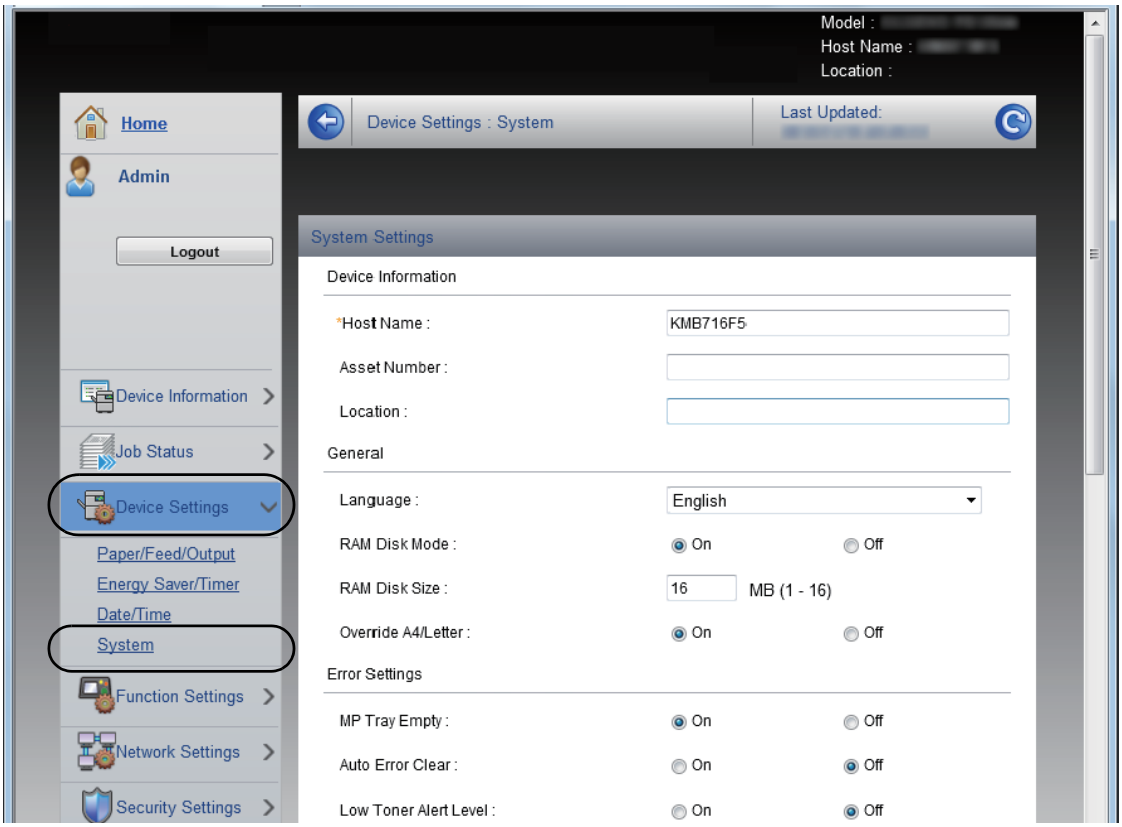
Note The configurable settings within **Device Security** and **Network Security** can also be configured from the machine's System Menu.
For details, refer to the *Using the Operation Panel* section of the *Advanced Operation Guide*.
For details on settings related to certificates, refer to the *Embedded Web Server RX User Guide*.

Changing Device Information

Change the device information of the machine.

1 Access Embedded Web Server RX by referring to ***Accessing Embedded Web Server RX*** on page ***3-8***.

2 From the **Device Settings** menu, select **System**.



3 Enter the device information, and then click **Submit**.

IMPORTANT After changing the setting, restart the network or turn the machine OFF and then ON.
To restart the network interface card, click **Reset** in the **Management Settings** menu, and then click **Restart Network** in **Restart**.

E-mail settings

By configuring the SMTP settings, you can send E-mail notifications on completed jobs.

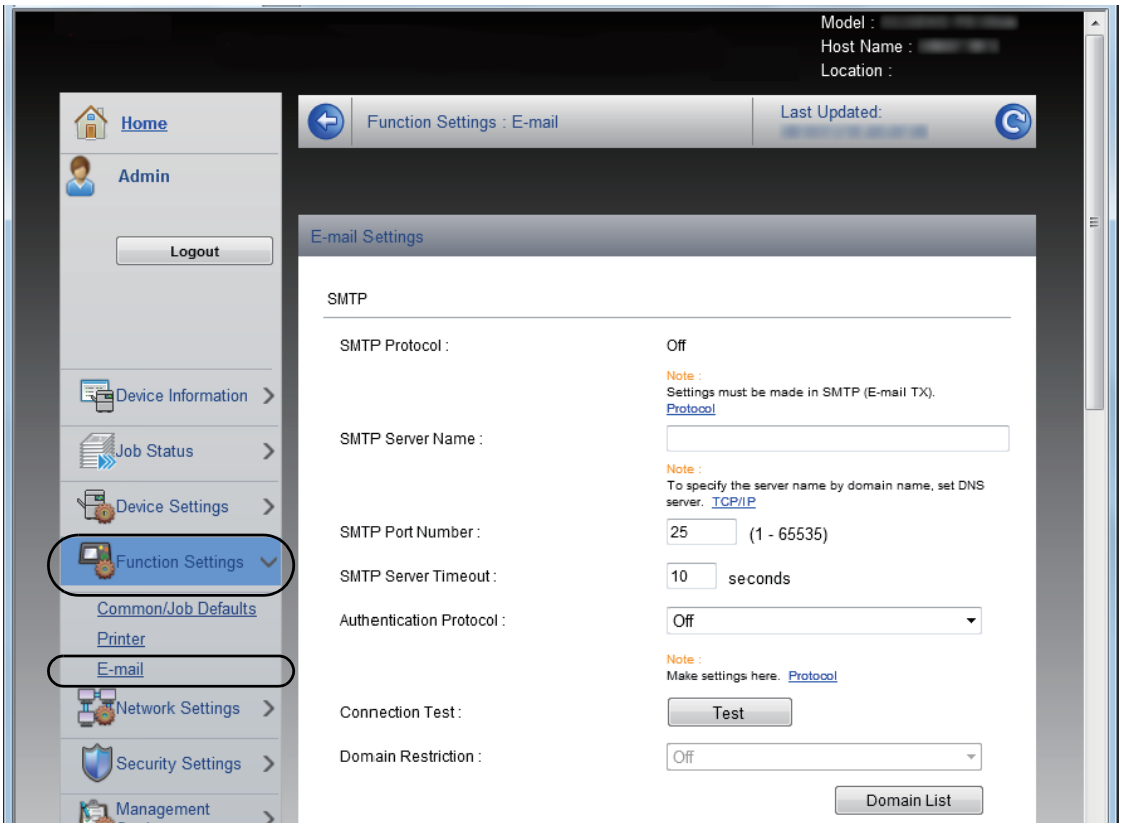
To use this function, this machine must be connected to a mail server using the SMTP protocol.

In addition, check the following.

- The network environment used to connect this machine to the mail server
  A full-time connection via a LAN is recommended.
- SMTP settings
  Use Embedded Web Server RX to register the IP address or host name of the SMTP server.
- If limits have been set on the size of E-mail messages, it may not be possible to send very large E-mails.
- The procedure for specifying the SMTP settings is explained below.

1 Access Embedded Web Server RX by referring to ***Accessing Embedded Web Server RX*** on page ***3-8***.

2 From the **Function Settings** menu, click **E-mail**.



3 Enter the appropriate values to each field.

Setting		Description
SMTP		Set to send e-mail from the machine.
	SMTP Protocol	Set SMTP protocol. Set the **SMTP (E-mail TX)** setting to **On** on the **Protocol Settings** page.
	SMTP Server Name	Enter the host name or IP address of the SMTP server.
	SMTP Port Number	Specify the port number to be used for SMTP. Use the SMTP default port 25.
	SMTP Server Timeout	Set the amount of time to wait before time-out in seconds.
	Authentication Protocol	Set whether SMTP authentication is used. To use authentication, enter the user information for authentication.
	SMTP Security	Set SMTP security. Turn on **SMTP Security** in **SMTP (E-mail TX)** on the **Protocol Settings** page.
	POP before SMTP Timeout	Specify the time in seconds until the connection to the POP server times outs. This can be set when **POP before SMTP** is selected in **Authentication Protocol**.
	Connection Test	Tests to confirm that the settings are correct.
	Domain Restriction	Set whether or not domains are restricted. Click the **Domain List** and enter the domain names of addresses to be allowed or rejected. Restriction can also be specified by e-mail address.
POP3		Set to receive e-mail at the machine.
	POP3 Protocol	Set POP3 protocol. Set the **POP3 (E-mail RX)** setting to **On** on the **Protocol Settings** page.
	Check Interval	Specify the interval for checking for incoming e-mail in minutes.
	Run once now	Click **Receive** to connect to the POP3 server immediately and check for incoming E-mails.
	Domain Restriction	Set whether or not domains are restricted. Click the **Domain List** and enter the domain names of addresses to be allowed or rejected. Restriction can also be specified by e-mail address.
	POP3 User Settings	Configure the settings for POP3 user accounts and the POP3 server. You can configure up to three users.

Setting		Description
E-mail Send Settings	**E-mail Size Limit**	Enter the maximum size of E-mail that can be sent in kilobytes. When E-mail size is greater than this value, an error message appears and E-mail sending is cancelled. Use this setting if you have set E-mail Size Limit for SMTP server. If not, enter a value of 0 (zero) to enable E-mail sending regardless of the size limit.
	Sender Address	Enter the E-mail address of the person responsible for the machine, such as the machine administrator, so that a reply or non-delivery report will go to a person rather than to the machine. The sender address must be entered correctly for SMTP authentication. The maximum length of the sender address is 128 characters.
	Signature	Enter the signature. The signature is free form text that will appear at the end of the E-mail body. It is often used for further identification of the machine. The maximum length of the signature is 512 characters.
	Function Default	Change the function default settings in **Common/Job Defaults Settings** page.

4 Click **Submit**.

Installing the Printer Driver

Ensure the printer is plugged in and connected to the PC before installing the printer driver from the DVD-ROM.

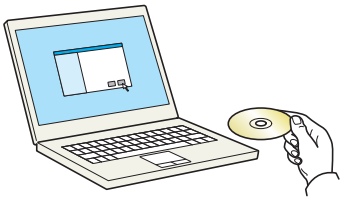
Note Installation on Windows must be done by a user logged on with administrator privileges.
When connected by USB cable, Plug and Play is disabled on this device when in Sleep mode. To continue the installation, press the **GO** key to wake the device from Low Power Mode or Sleep before continuing.
KX XPS DRIVER cannot be installed on Windows XP.

Installing Printer Driver in Windows

Express Install

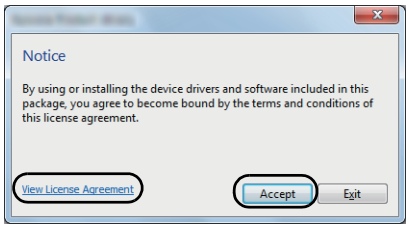
The following procedure is an example for installing the software in Windows 7 using **Express Install**.

For details, refer to Custom Installation in the ***Custom Install*** on page ***3-16***.



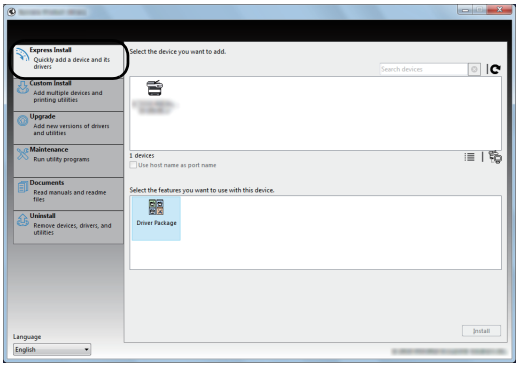
1 Insert the DVD-ROM.

Note Installation on Windows must be done by a user logged on with administrator privileges.
If the **Welcome to the Found New Hardware Wizard** dialog box displays, select **Cancel**.
If the autorun screen is displayed, click **Run setup.exe**.
If the user account management window appears, click **Yes** (**Allow**).


Notice
By using or installing the device drivers and software included in this package, you agree to become bound by the terms and conditions of this license agreement.
View License Agreement
Accept
Exit

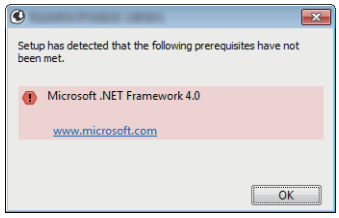
2 Click **View License Agreement** and read the License Agreement.

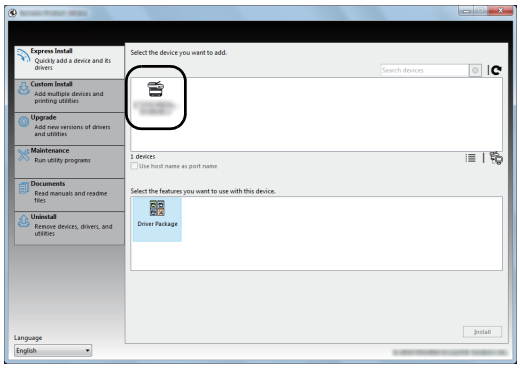
Click **Accept**.



3 Select **Express Install** tab.

Note To install Status Monitor, it is necessary to install Microsoft .NET Framework 4.0 beforehand.

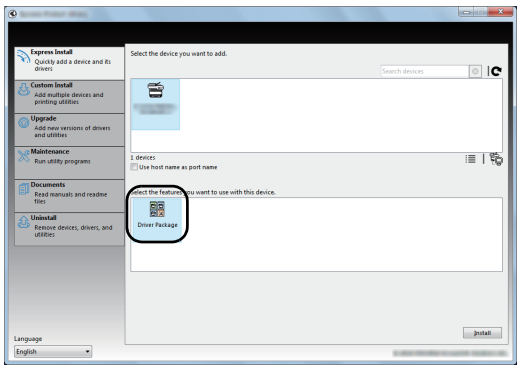




4 Select the device to be installed.

You can also select **Use host name for port name** and set to use the host name of the standard TCP/IP port. (A USB connection cannot be used.)

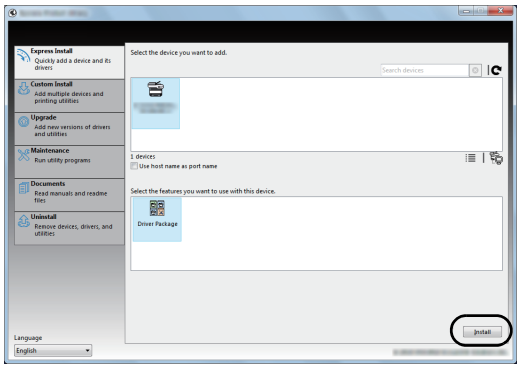
Note The machine cannot be detected unless it is on. If the computer fails to detect the machine, verify that it is connected to the computer via a network or USB cable and that it is turned on and click (Reload).



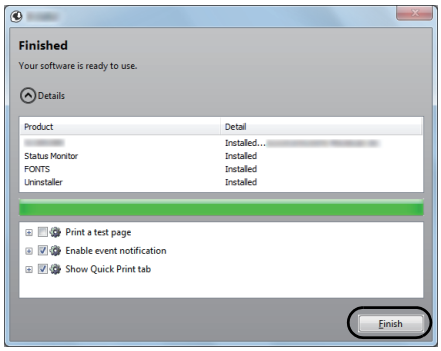
5 Select the package to be installed.

Packages include the following software:

- Driver Package
  Printing System Driver, Status Monitor, Fonts



6 Click **Install**.



7 Finish the installation.

When **Your software is ready to use** appears, you can use the software. To print a test page, click the **Print a test page** checkbox and select the machine.

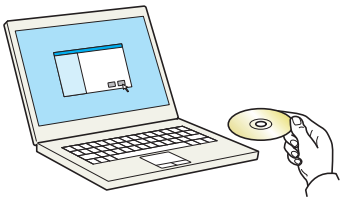
Click **Finish** to exit the wizard.

Note When you have selected **Device settings** in Windows XP, the dialog box for device setting will appear after **Finish** is clicked. Configure the settings for options installed on the machine. Device settings can be configured after the installation is completed. For details, refer to the Device Settings in the *Printing System Driver User Guide* on the DVD-ROM.

If a system restart message appears, restart the computer by following the screen prompts. This completes the printer driver installation procedure.

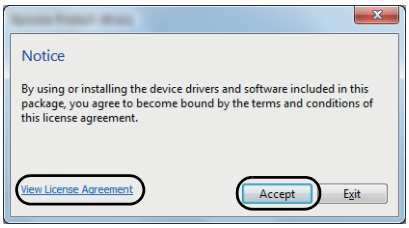
Custom Install

The following procedure is an example for installing the software in Windows 7 using **Custom Install**.



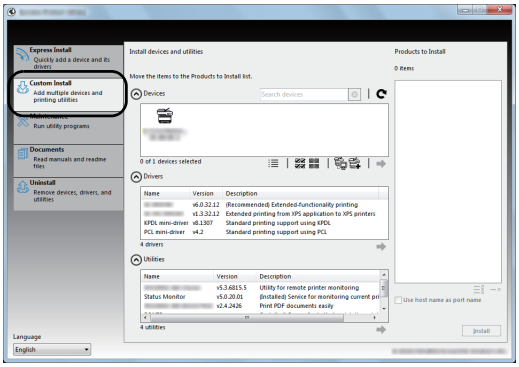
1 Insert the DVD-ROM.

Note Installation on Windows must be done by a user logged on with administrator privileges.
If the **Welcome to the Found New Hardware Wizard** dialog box displays, select **Cancel**.
If the autorun screen is displayed, click **Run setup.exe**.
If the user account management window appears, click **Yes** (**Allow**).

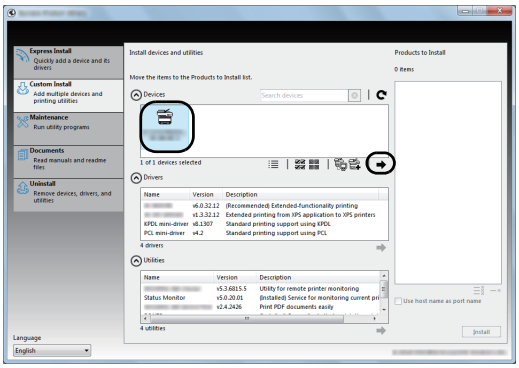

Notice
By using or installing the device drivers and software included in this package, you agree to become bound by the terms and conditions of this license agreement.
View License Agreement
Accept
Exit

2 Click **View License Agreement** and read the License Agreement.

Click **Accept**.



3 Select **Custom Install** tab.



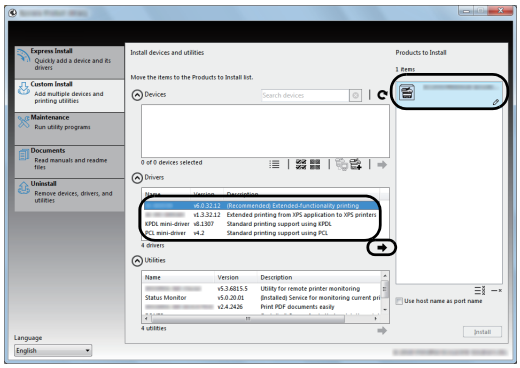
4 Select the device to be installed, and click the arrow button to move it to the **Products to Install** list.

The following buttons are available.

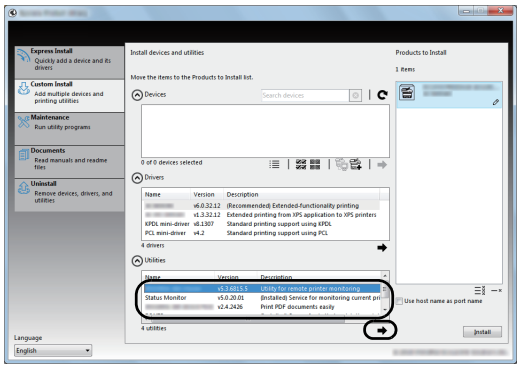
: This button is used to switch the display between icon and text display.

: This button is used to select multiple items.

: If the target device is not displayed, press this button to directly select the device to be used.

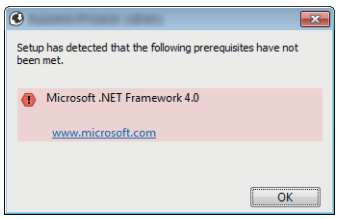


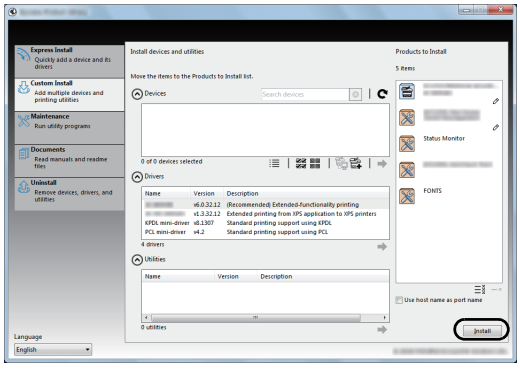
5 Select the device to be installed and driver to be installed, and then click the arrow button to move it to the **Products to Install** list.



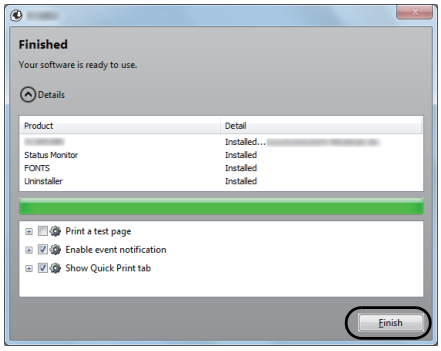
6 Select the utility to be installed, and then click the arrow button to move it to the **Products to Install** list.

Note To install Status Monitor, it is necessary to install Microsoft .NET Framework 4.0 beforehand.





7 Click **Install**.



8 Finish the installation.

When **Your software is ready to use** appears, you can use the software. To print a test page, click the **Print a test page** checkbox and select the machine.

Click **Finish** to exit the wizard.

Note When you have selected **Device settings** in Windows XP, the dialog box for device setting will appear after **Finish** is clicked. Configure the settings for options installed on the machine. Device settings can be configured after the installation is completed. For details, refer to the Device Settings in the *Printing System Driver User Guide* on the DVD-ROM.

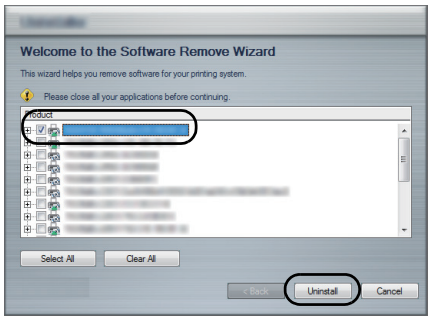
If a system restart message appears, restart the computer by following the screen prompts. This completes the printer driver installation procedure.

Uninstalling the Software

Perform the following procedure to delete the Software from your computer.

Note Uninstallation on Windows must be done by a user logged on with administrator privileges.

1 Click **Start** button on the Windows and then select **All Programs**, (name of offer company), and **Uninstall Product Library** to display the Uninstall Wizard.



2 Place a check in the check box of the software to be deleted.

Click **Uninstall**.

3 If a system restart message appears, restart the computer by following the screen prompts. This completes the software uninstallation procedure.

Note The software can also be uninstalled using the Product Library.
In the Product Library installation screen, click **Uninstall**, and follow the on-screen instructions to uninstall the software.

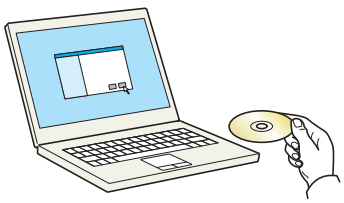
Installing Printer Driver in Macintosh

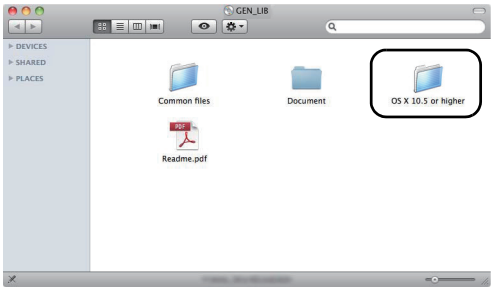
The machine's printer functionality can be used by a Macintosh computer.

The following is an explanation for installation in MAC OSX 10.7.

Note Installation on MAC OS must be done by a user logged on with administrator privileges.
When printing from a Macintosh computer, set the machine's emulation to **KPDL** or **KPDL(Auto)**. For details, refer to the *Using the Operation Panel* section of the *Advanced Operation Guide.*
If connecting by Bonjour, enable Bonjour in the machine's network settings. For details, refer to the *Using the Operation Panel* section of the *Advanced Operation Guide.*
In the Authenticate screen, enter the name and password used to log in to the operating system.

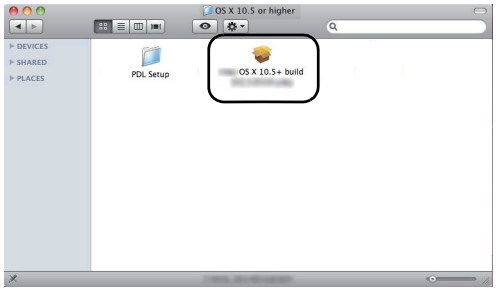
1 Insert the DVD-ROM.



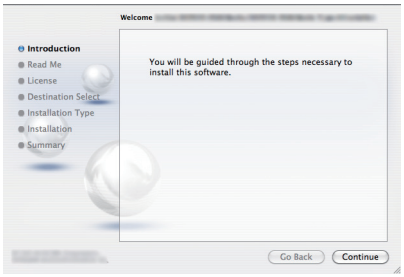


2 Double-click the **GEN_LIB** icon.

3 Double-click **OS X 10.5 or higher**.



4 Double-click (Brand Name) **OS X 10.5+**.



5 The printer driver installation program starts up.

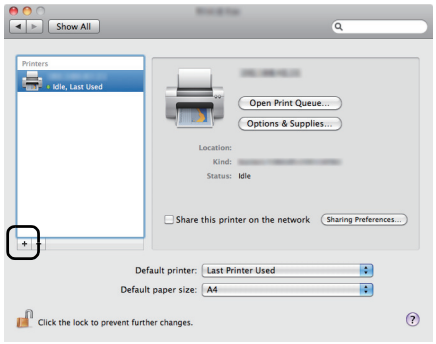
6 Install the printer driver as directed by the instructions in the installation software.

This completes the printer driver installation.

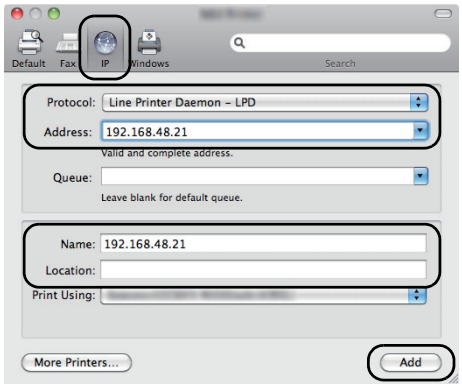
If a USB connection is used, the machine is automatically recognized and connected.

If an IP connection is used, the settings below are required.

7 Open System Preferences and click **Print & Scan**.



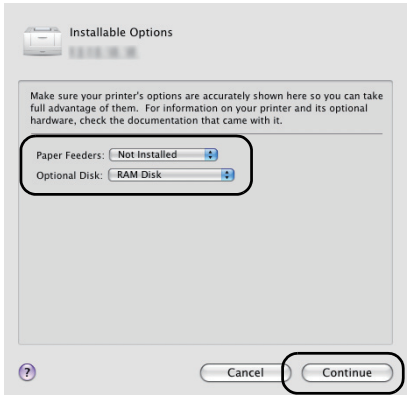
8 Click the plus symbol (**+**) to add the installed printer driver.



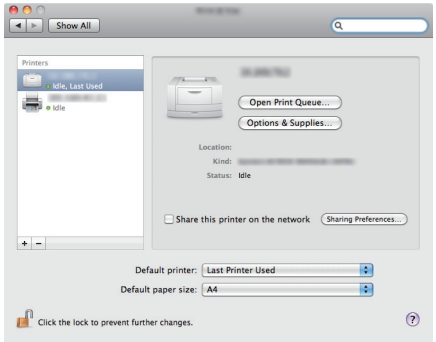
9 Click the IP icon for an IP connection and then enter the IP address and printer name.

The number entered in **Address** will automatically appear in **Name**. Change if needed.

Note When using a Bonjour connection, select **Default** and click the item that appears in **Printer Name**. The driver with the same name as the machine automatically appears in **Driver**.


Installable Options
Make sure your printer's options are accurately shown here so you can take full advantage of them. For information on your printer and its optional hardware, check the documentation that came with it.
Paper Feeders: Not Installed
Optional Disk: RAM Disk
Cancel
Continue

10 Select the options available for the machine and click **Continue**.



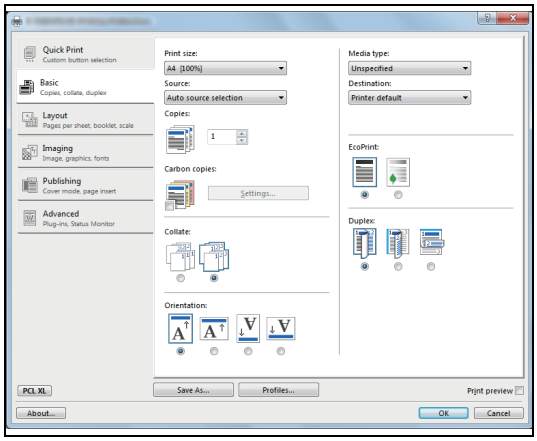
11 The selected printer is added.

Printing

This section explains the printing procedure from an application software. You can specify the printing settings from each tab on Printing System Driver. Printing System Driver is stored in the DVD-ROM (Product Library). For more information, refer to the *Printing System Driver User Guide* in the DVD-ROM.

About Printing System Driver

Printing System Driver consists of the following tabs.



Quick Print

Use this tab to define basic print options into group profiles that can be accessed quickly and easily.

Basic

Use this tab to select the page size and orientation. The paper source and duplex printing are also selected.

Layout

Use to create multiple pages on a single sheet of paper. Also contains the scaling option.

Imaging

Select this tab to change the print quality, and the font or graphic settings.

Publishing

Use to add covers or page inserts to your output. You can also produce a set of transparencies with a blank or printed sheet interleaved using Transparency Interleaving.

Advanced

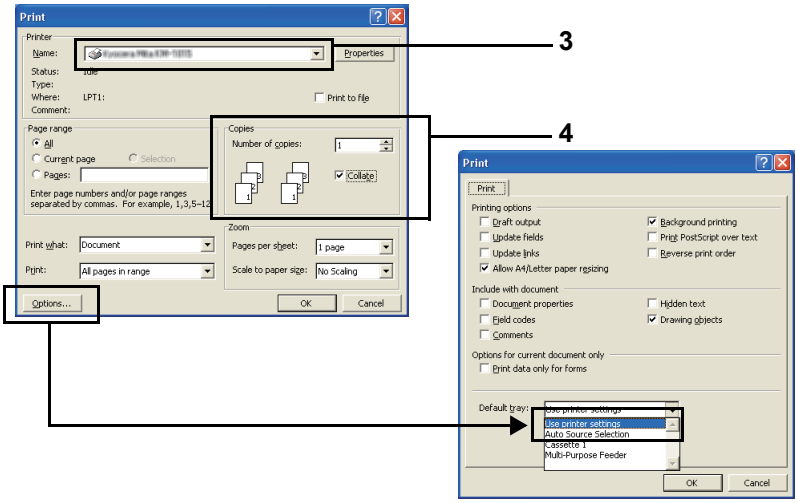
Use this tab to configure settings for adding text pages or watermarks to print data.

Printing from Application Software

The steps required to print a document created with an application are explained below. You can select the printing Paper Size and Output Destination.

1. Load the paper required into the paper cassette.
2. From the application File menu, select **Print**. The Print dialog box displays.
3. Click the drop down list of printer names. All the printers installed in Windows are listed. Click the name of the machine.
4. Use **Number of copies** to enter the number of prints required. Up to 999 copies can be entered.

   For Microsoft Word, we recommend that you click **Options** and specify **Use printer settings** for the **Default tray**.



5. To start printing, click **OK**.

Note For information on how to use the printer driver software, refer to *Printing System Driver User Guide.*

Printing by AirPrint

AirPrint is a printing function that is included standard in iOS 4.2 and later products, and Mac OS X 10.7 and later products.

This function enables you to connect and print to any AirPrint compatible device without installing a printer driver.

To allow the machine to be found when printing by AirPrint, you can set machine location information in Embedded Web Server RX.

For details, refer to the *Embedded Web Server RX User Guide*.

Status Monitor

The Status Monitor monitors the printer status and provides an ongoing reporting function.

Note When you activate Status Monitor, check the status below.

- Printing System Driver is Installed.
- Either `Enhanced WSD` or `EnhancedWSD(SSL)` are set to `On` in *Security* section of the *Advanced Operation Guide*.

Accessing the Status Monitor

The Status Monitor also starts up when printing is started.

Exiting the Status Monitor

Use either of the methods listed below to exit the Status Monitor.

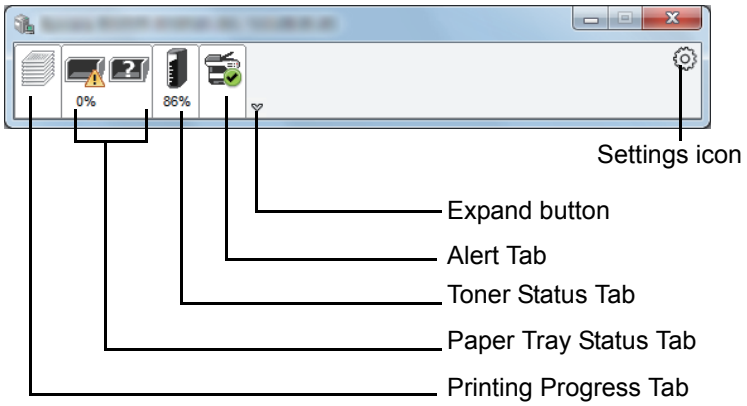
- Exit manually:
  Click the settings icon and select **Exit** in the menu to exit the Status Monitor.
- Exit automatically:
  The Status Monitor automatically shuts down after 7 minutes if it is not being used.

Status Monitor Display

The display of the Status Monitor is as follows.

Quick View State

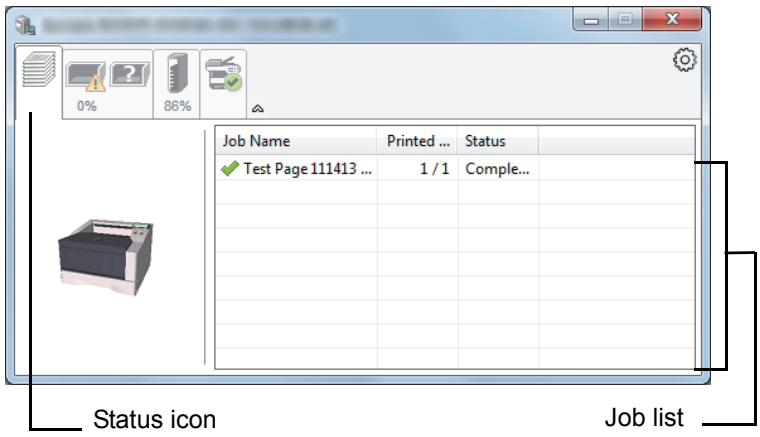
The status of the printer is displayed using icons. Detailed information is displayed when the Expand button is clicked.



Detailed information is displayed by clicking on each icon tab.

Printing Progress Tab

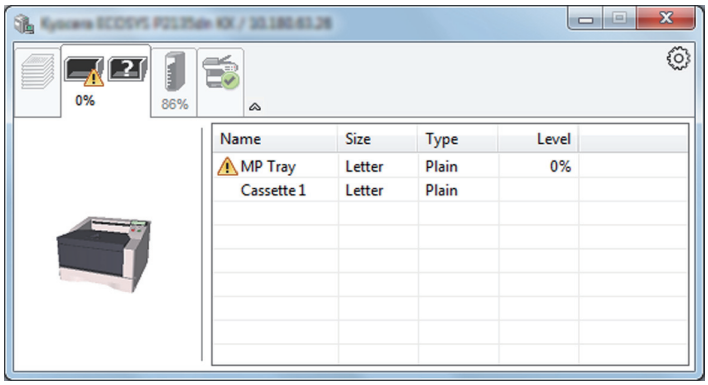
The status of the print jobs is displayed.



Select a job on the job list and it can be canceled using the menu displayed with a right-click.

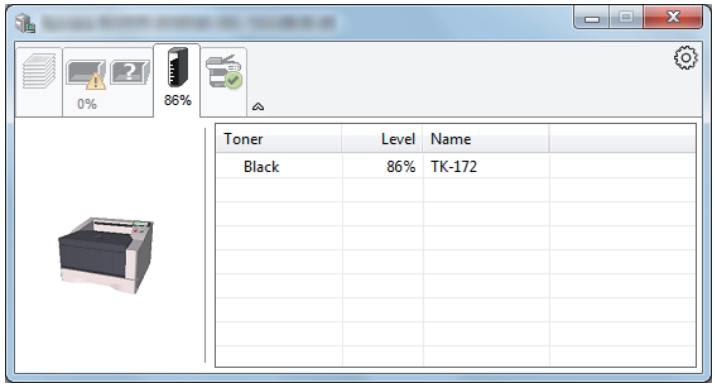
Paper Tray Status Tab

Information is displayed about the paper in the printer and about the amount of paper remaining.



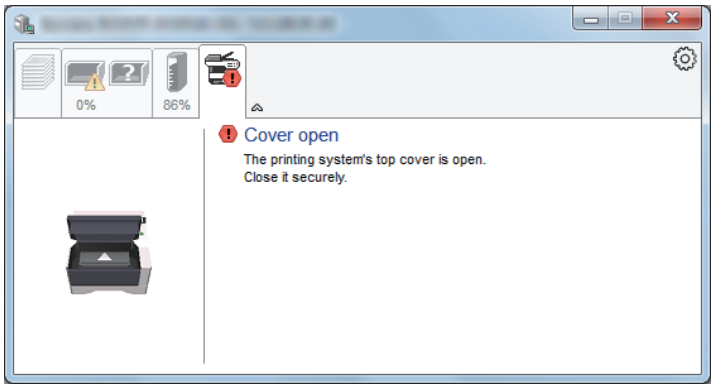
Toner Status Tab

The amount of toner remaining is displayed.



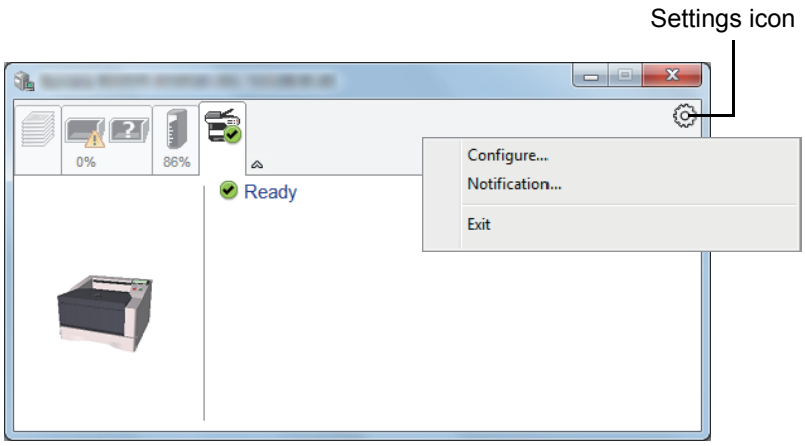
Alert Tab

If an error occurs, a notice is displayed using a 3D image and a message.



Status Monitor Context Menu

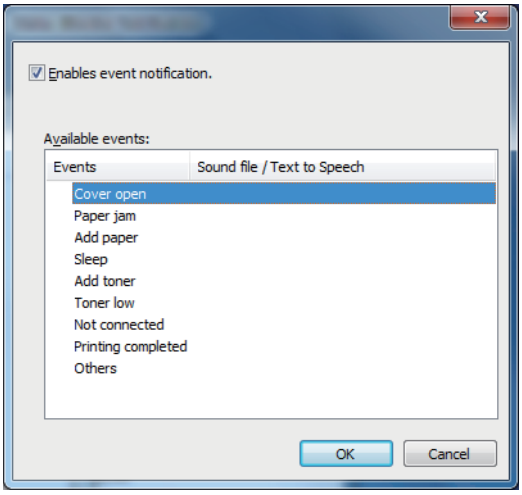
The following menu is displayed when the settings icon is clicked.



- **Configure...**
  If the printer is connected to a TCP/IP network and has its own IP address, use a web browser to access the Embedded Web Server RX to modify or confirm the network settings. For more information, refer to the *Embedded Web Server RX User Guide*.
  This menu is not displayed when using USB connection.
- **Notification…**
  This sets the display of the Status Monitor. For details, refer to ***Status Monitor Notification Settings*** on page ***3-27***.
- **Exit**
  Exits the Status Monitor.

Status Monitor Notification Settings

The Status Monitor settings and event list details are displayed.



Select whether notification is performed when an error in the event list occurs.

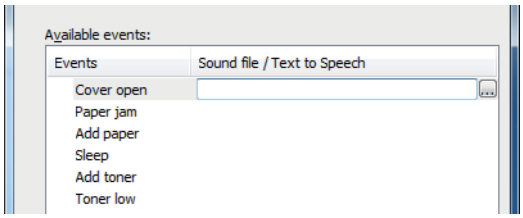
1 Select **Enable event notification**.

If this setting is set to Off, then the Status Monitor will not start up even when printing is executed.

2 Select an event to use with the text to speech function in **Available events**.

3 Click **Sound file / Text to Speech** column.

Click the browse (...) button to notify the event by sound file.



Note The available file format is WAV.

When customizing the message texts to read on the screen aloud, enter the texts in the text box.

Energy Saver Function

Low Power Mode

When the set time (factory setting is 1 minute) elapses after the printer is last used, the printer automatically enters low power mode. The message display backlight and lights turn off and power consumption is reduced. This status is referred to as Low Power Mode.

The amount of time of no activity that must pass before Low Power Mode is activated may be lengthened. For more information refer to *Low Power Timer (Low Power Mode timer timeout time)* section of the *Advanced Operation Guide*.

If print data is received during Low Power Mode, the message display lights up and printing starts.

To resume, press **[GO]**. The printer will be ready to operate within 8 seconds or less.

Note that ambient environmental conditions, such as ventilation, may cause the machine to respond more slowly.

Sleep

For Europe

When the set time (factory setting is 15 minutes) elapses after the printer is last used, the printer automatically enters sleep mode. The message display backlight and lights turn off to minimize power consumption. This status is referred to as Sleep.

To use the printer, press **[GO]**. The printer will be ready to operate within 16.5 seconds or less.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout setting) section of the Advanced Operation Guide*.

Except for Europe

When the set time (factory setting is 1 minute) elapses after the printer is last used, the printer automatically enters sleep mode. The message display backlight and lights turn off to minimize power consumption. This status is referred to as Sleep.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout setting) section of the Advanced Operation Guide*.

There are two sleep modes: Quick Recovery and Energy Saver. The default setting is Energy Saver mode.

Quick Recovery Mode

The recovery from the sleep mode is faster than when using Energy Saver mode.

The message display goes off when sleep mode is entered and the Ready indicator flashes.

The machine recovers quickly when **[GO]** is pressed. The machine also automatically recovers and prints when a job is detected.

If print data is received during Sleep, the print job is performed while the message display remains unlit.

To use the printer, press **[GO]**.

Note that ambient environmental conditions, such as ventilation, may cause the machine to respond more slowly.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout setting)* section of the *Advanced Operation Guide*.

Energy Saver Mode

This mode reduces power consumption even more than quick recovery mode, and allows Sleep mode to be set separately for each function.

To use the printer, press **[GO]**. The printer will be ready to operate within 16.5 seconds or less.

For more information on Energy Saver settings, refer to *Sleep Level Set. (Sleep level setting)* section of the *Advanced Operation Guide*.

If the Low Power Timer is equal to the Sleep Timer, a Sleep mode is preceded.

4 Maintenance

This chapter explains how to replace the toner container and clean the printer.

General Information **4-2**
Toner Container Replacement **4-2**
Cleaning the Printer **4-6**
Prolonged Non-Use and Moving of the Printer **4-9**

General Information

This chapter describes basic maintenance tasks you can perform for the printer. You can replace the toner container according to the printer's display.

Also, the internal parts need periodic cleaning.

Note Information Collection on Memory Chips - The memory chip attached to the toner container is designed to improve convenience for the end user; to support the recycling operation of empty toner containers; and to gather information to support new product planning and development. The information gathered is anonymous - it cannot be associated to any specific individual and the data is intended to be used anonymously.

Toner Container Replacement

The message identifies the toner status at two stages of toner usage.

- When the printer becomes low on toner, the message `Toner low` is displayed. Note the replacement is not always necessary at this stage.
- If you ignore the above status and continue printing, the message `Replace toner` is displayed just before the toner is used up. The toner container must then be replaced immediately.

In either case, replace the toner container.

Frequency of Toner Container Replacement

Assuming an average toner coverage of 5 % and EcoPrint mode turned off, the toner container will need replacing approximately once every 7,200 pages.

You can print a status page to check how much toner remains in the toner container. The Toner Gauge in the consumables status section on the status page shows a progress bar, which roughly represents how much toner is left in the toner container.

Starter Toner Container

The toner container packed with the new printer is a starter toner container. The starter toner container lasts an average of 2,300 pages.

Toner Kits

For best results, we recommend that you only use genuine Parts and Supplies.

A new toner kit contains the following items:

- Toner Container
- Plastic waste bag for old toner container
- Installation Guide

Note Do not remove the toner container from the carton until you are ready to install it in the printer.

Replacing the Toner Container

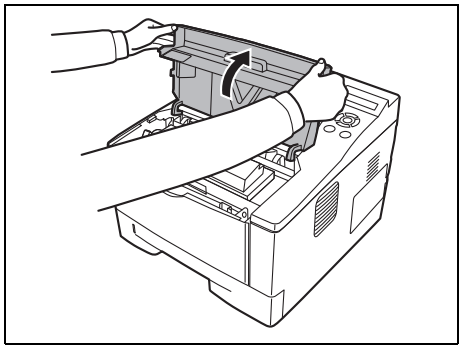
This section explains how to replace the toner container.

> **CAUTION** Do not attempt to incinerate parts which contain toner. Dangerous sparks may cause burns.

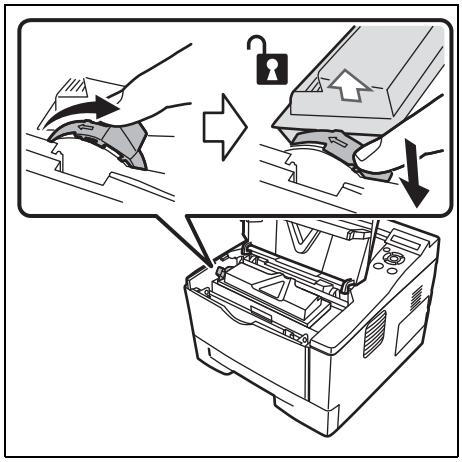
IMPORTANT During toner container replacement, temporarily move storage media and computer supplies (such as floppy disks) away from the toner container. This is to avoid damaging media by the magnetism of toner.

IMPORTANT We are not liable against any damages or problems arising from the use of toner containers other than those designated as original our toner containers. For optimum performance, it is also recommended to use only the our toner containers which are specifically intended for use in your country or region. If the toner container for another destinations is installed, the printer will stop printing.

Note You do not have to turn printer power off before starting the replacement. Any data that may be processing in the printer will be deleted if you turn the printer power off.

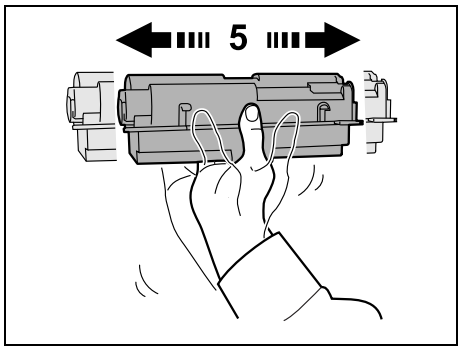


1 Open the top cover.

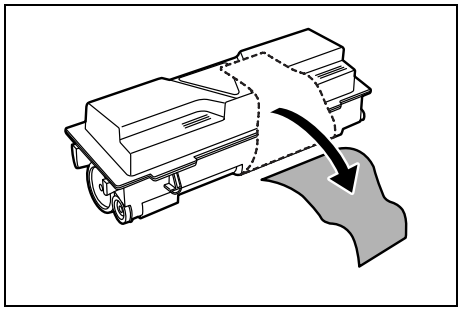


2 Turn the lock lever to the unlock position. Push the lock lever to the position marked by the arrow and pull out the toner container.

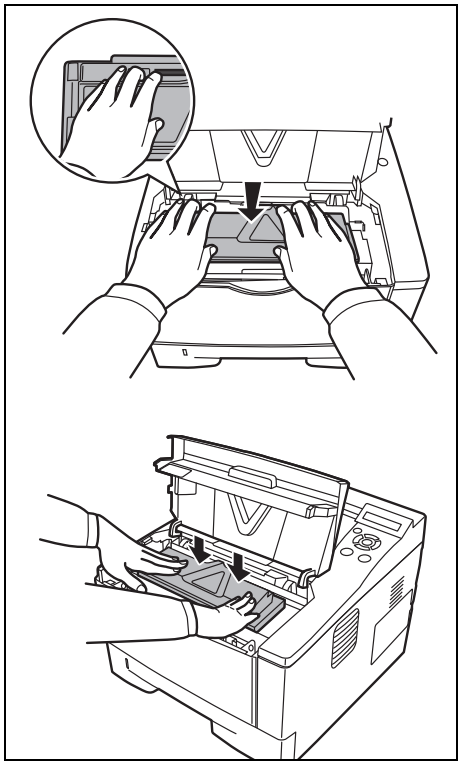
Note Put the old toner container in the plastic bag (supplied with the new toner kit) and discard it later according to the local code or regulations for waste disposal.



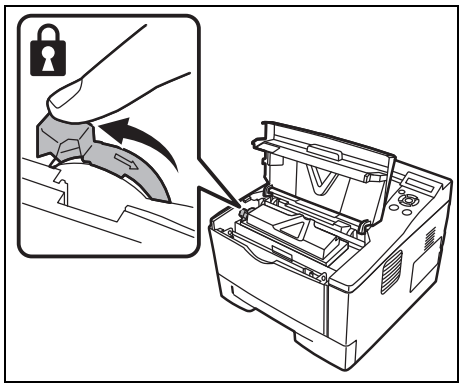
3 Take the new toner container out of the toner kit. Shake the new toner container at least 5 times as shown in the figure in order to distribute the toner evenly inside the container.



4 Remove the label from the toner container.



5 Install the new toner container in the printer. Push firmly on the top of the container at the positions marked PUSH, until you hear a click.



6 Turn the lock lever to the lock position.

7 Close the top cover.

Maintenance Kit Replacement

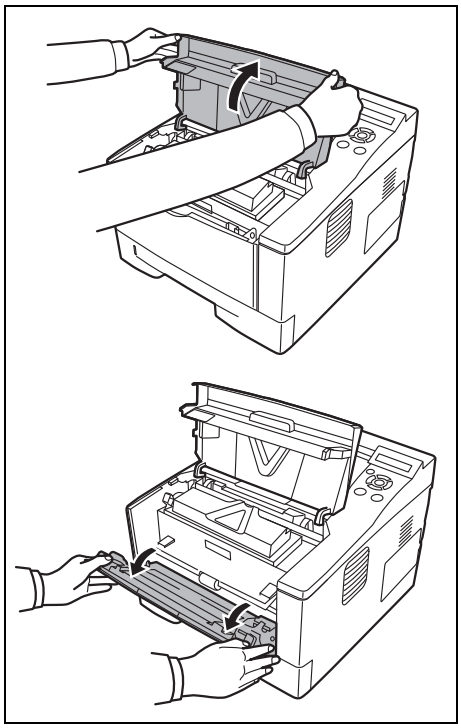
When the machine prints 100,000 pages, a message is displayed indicating that the maintenance kit should be replaced. The maintenance kit must then be replaced immediately.

To replace the maintenance kit, contact your service technician.

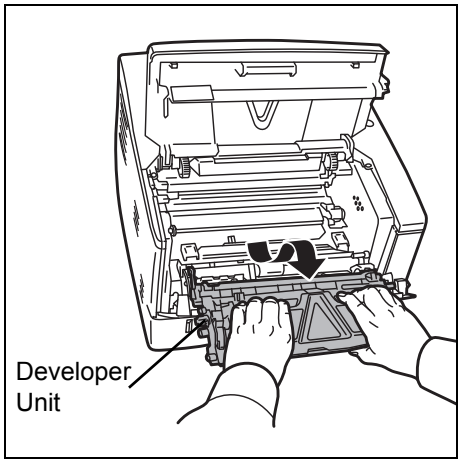
IMPORTANT When the waste toner in the drum unit is almost full, `Warning waste toner box` is displayed. Replace the maintenance kit.

Cleaning the Printer

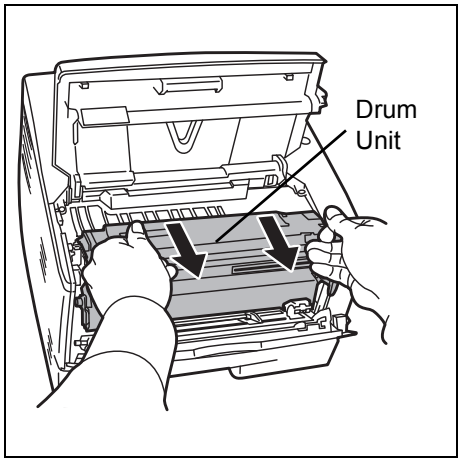
To avoid print quality problems, the interior of the printer must be cleaned with every toner container replacement.



1 Open the top cover and front cover.

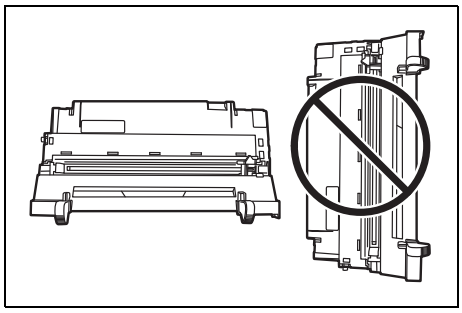


2 Lift the developer unit together with the toner container out of the printer.



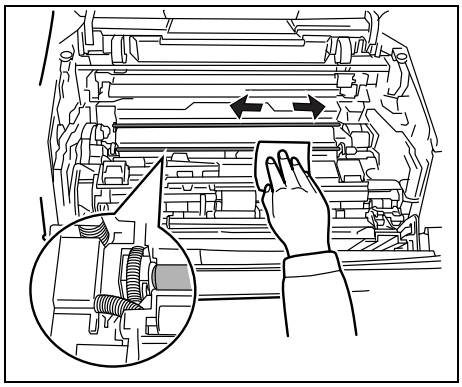
3 Remove the drum unit from the printer by holding the green levers with both hands.

Note The drum unit is sensitive to light. Never expose the drum unit to light for more than five minutes.



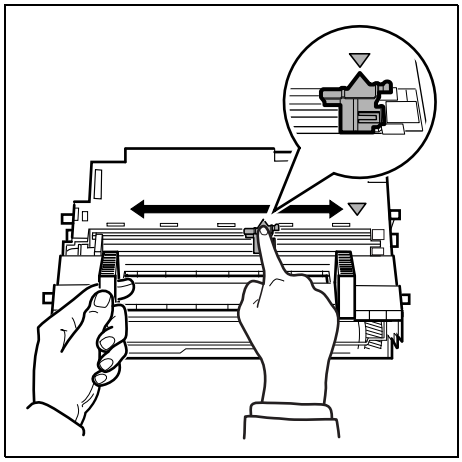
4 Place the drum unit flat on a clean, level surface.

IMPORTANT Do not place the drum unit on end.



5 Use a clean, lint free cloth to clean dust and dirt away from the metal registration roller.

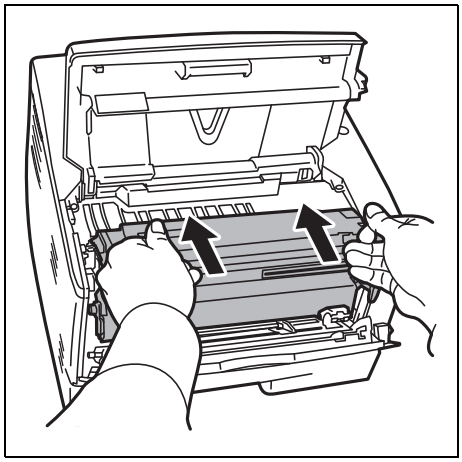
IMPORTANT Take care not to touch the transfer roller (black) during cleaning.



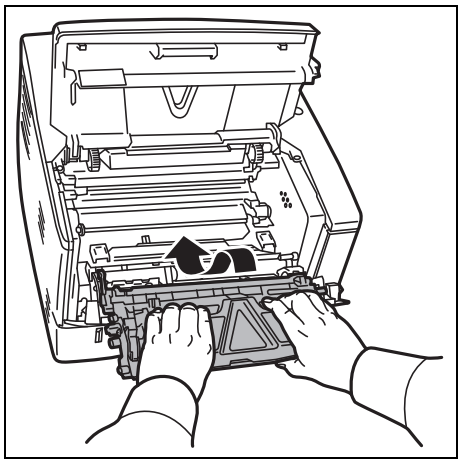
6 On the drum unit, slide the charger cleaner (green) back and forth 2 or 3 times to clean the charger wire, then return it to its original position (CLEANER HOME POSITION).

IMPORTANT Remove the fixing tape on the charger cleaner in case of the first cleaning.

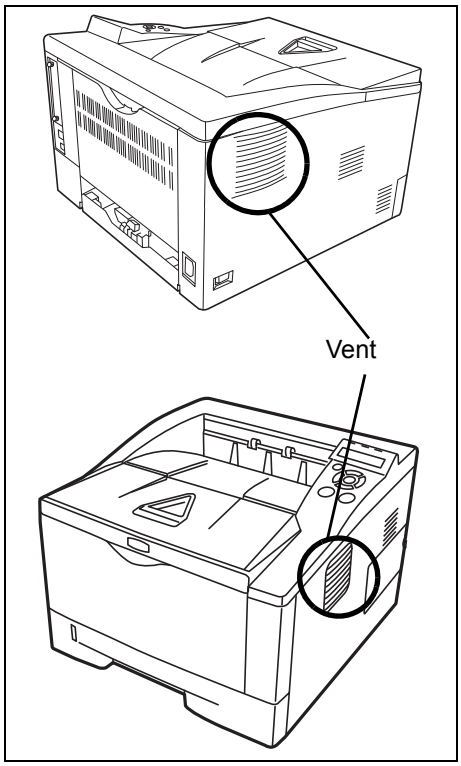
After cleaning, make sure you restore the charger cleaner to its home position.



7 When cleaning is complete, return the drum unit to the original position.



8 Return the developer unit to its position, aligning the guides at both ends with the slots in the printer. Then, close the front cover and top cover.



9 Use a lint free cloth to clean dust and dirt away from the vent on the left and the right side of the machine.

Prolonged Non-Use and Moving of the Printer

Prolonged Non-use

If you ever leave the printer unused for a long period of time, remove the power cord from the wall outlet.

We recommend you consult with your dealer about the additional actions you should take to avoid possible damage that may occur when the printer is used next time.

Moving the Printer

When you move the printer:

- Move it gently.
- Keep it as level as possible to avoid spilling toner inside the printer.
- Be sure to consult a service technician before attempting long distance transportation of the printer.

WARNING If you ship the printer, remove and pack the developer unit and drum unit in a plastic bag and ship them separately from the printer.

5 Troubleshooting

This chapter explains how to handle printer problems, understand error messages, and clear paper jams.

General Guidelines **5-2**
Print Quality Problems **5-3**
Error Messages **5-5**
Ready, Data, and Attention Indicators **5-9**
Clearing Paper Jams **5-10**

General Guidelines

The table below provides basic solutions for problems you may encounter with the printer. We suggest you consult this table to troubleshoot the problems before calling for service repairs.

Symptom	Check Items	Corrective Actions
Print quality is poor.	–	Select half speed mode using the printer driver.
		Refer to ***Print Quality Problems*** on page ***5-3***.
Text is missing on the Windows test page.	–	This is a problem specific to the Windows OS. It is not a printer problem. It does not affect print quality.
Paper is jammed.	–	Refer to ***Clearing Paper Jams*** on page ***5-10***.
Nothing lights on the operation panel even when power is turned on and the fan makes no noise.	Check the power cord is property plugged into power outlet.	Connect both ends of the power cord securely. Try replacing the power cord. Refer to *Installation Guide* for more information.
	Check the power switch is in the On (|) position.	Refer to the *Installation Guide* for more information.
The printer prints a status page but data from the computer is not being printed.	Check program files and application software.	Try printing another file or using another print command. If the problem occurs with a specific file or application, check the printer settings for that application.
	Check the interface cable.	Connect both ends of the interface cable securely. Try replacing the printer cable. Refer to the *Installation Guide* for more information.
Vapor is emitted near the top tray.	Check if the temperature is low near the location of the printer, or if the paper that is being used has been exposed to humidity.	Depending on the operating environment of the printer and the condition of the paper, heat generated during printing can evaporate water moisture in the printed paper, emitting vapor from the printer. In this case, printing can be continued without any problem. To correct this, increase the temperature in the room, and use paper that has been stored in a dry place.

Tips

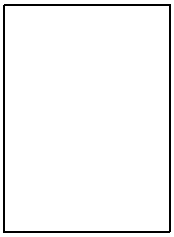
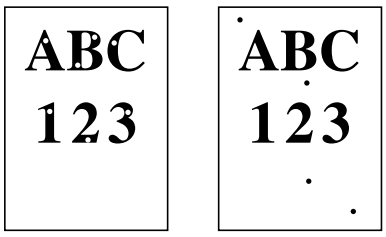
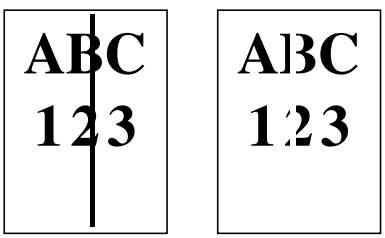
Printer problems may be solved easily by following the tips below. When you have encountered a problem that cannot be solved following the guidelines above, try the following:

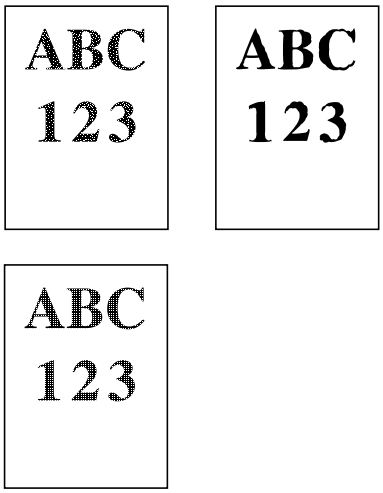
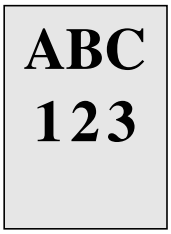
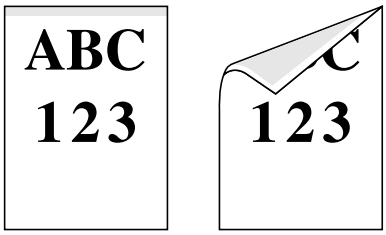
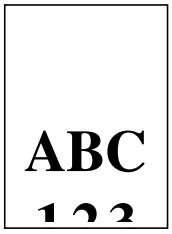
- Restart the computer you are using to send print jobs to the printer.
- Make sure that the procedures for printing are correctly followed in the application software. Consult the documentation supplied with the application software.

Print Quality Problems

The tables and diagrams in the following sections define print quality problems and the corrective action you can conduct to solve the problems. Some solutions may require cleaning or replacing parts of the printer.

If the suggested corrective action will not solve the problem, call for service representative.

Printed Results	Corrective Action
Completely blank printout 	Check the toner container. Open the front cover and check that the toner container is correctly installed in the printer. Refer to ***Toner Container Replacement*** on page ***4-2***.
Full single-color printout 	Contact your service representative.
Dropouts, stray dots 	Drum or developer unit may be damaged. If the problem is not solved even after printing several pages, call for service representative.
Vertical streaks 	Check the toner container and if necessary replace. Refer to ***Toner Container Replacement*** on page ***4-2***. Clean the charger wire. Refer to ***Cleaning the Printer*** on page ***4-6***. Check the charger cleaner of the drum unit is in its original position. Refer to ***Cleaning the Printer*** on page ***4-6***.

Printed Results	Corrective Action
Faint or blurred printing 	Check the toner container and if necessary replace. Refer to ***Toner Container Replacement*** on page ***4-2***. Clean the charger wire. Refer to ***Cleaning the Printer*** on page ***4-6***.
Gray background 	Check the toner container and if necessary replace. Refer to ***Toner Container Replacement*** on page ***4-2***. Check the developer unit and drum unit are installed correctly. Refer to ***Cleaning the Printer*** on page ***4-6***.
Dirt on the top edge or back of the paper 	If the problem is not solved even after printing several pages, clean the registration roller. Refer to ***Cleaning the Printer*** on page ***4-6***. If the problem is not solved after cleaning, call for service representative.
Printing incomplete or out of position 	Check that the printing settings are correct in the application software and the printer driver. Check whether the problem is being caused by a PRESCRIBE command error. If the problem occurs only with a specific file or program, the most likely cause is an error in a parameter to a command or command syntax.

Error Messages

The following table lists errors and maintenance messages that you can be dealt with by yourself.

If `Call service` or `Error.Power off.` is displayed, turn off the printer then turn it back on to see if the printer has recovered. If the printer has not recovered, turn off the printer, disconnect the power cord, and contact your service representative or authorized service center.

Some errors cause the alarm to sound. To stop the alarm, press **[Cancel]**.

Message	Corrective Action
`Add paper MP Tray`	The paper has run out in the paper source displayed. Supply paper according to the paper source displayed (paper cassettes, MP tray, or optional paper feeders).This message is displayed alternately with messages indicating the printer status, such as, `Ready`, `Please wait`, and `Processing`.
`Call service` `F###`	`F###` represents a controller error (**#=**`0`, `1`, `2`, ...). Call for service representative. The printer does not operate when this message is displayed.
`Call service` `####:0123456`	`####` represents a mechanical error (**#=**`0`, `1`, `2`, ...). Call for service representative. The printer does not operate when this message is displayed. The total number of pages printed is also indicated, e.g. `0123456`.
`Canceling data`	Displayed when data is being canceled.
`Cassette # not loaded`	The corresponding paper cassette is not installed. Install the cassette. The cassette number can be 1 (topmost) to 4 (bottom).
`Close top cover`	The top cover of the printer is open. Close the printer top cover.
`Device busy`	This message is displayed when `Remove Device` was selected while a USB flash memory was being used. The previous screen is displayed again 1 or 2 seconds.
`Duplex disabled` `Press GO`	You attempted to print with a paper size and paper type that cannot be used for duplex printing. Press **[GO]** to print onto one-side of the paper only. You can select an alternative paper size and type by pressing the △ or ▽. You can also press **[MENU]** and change the tray setting inside the menu, which will automatically cancel the error and output resumes. At the same time **[ATTENTION]** indicator will light up and **[READY]** indicator will start flashing.
`Error.Power off.` `F###`	Turn the power switch off and then back on again. If this message still remains, turn the power switch off, and contact your service representative or authorized service center.
`Error.Power off.` `F000`	The printer controller and operation panel cannot exchange data. Turn the printer off and unplug it from the mains power supply. Then contact your service representative or authorized service center. See the back page of this manual for the relevant phone numbers.
`Install MK`	Replace Maintenance Kit which is displayed on the message display. Replacement of the maintenance kit is necessary at every 100,000 pages of printing and requires professional servicing. Contact your service technician.

Message	Corrective Action
KPDL error ## Press GO	Current print processing cannot continue because of occurrence of KPDL error which is categorized by ##. To print out an error report, display >>Error Report from the menu system, and select On. Press **[GO]** to resume printing. You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
Load Cassette # (A4)/(PLAIN)	The paper cassette matching the paper size and paper type of the print job is empty. Load paper into the paper cassette as displayed in place of #. Press **[GO]** to resume printing. If you want to print from a different paper source, press △ or ▽ to display Use alternative? and you can change the source for paper feeding. After selecting a paper source and pressing **[MENU]**, Paper Settings > appears. By pressing the △, the paper type settings menu appears. After setting the correct paper type, press **[OK]** and printing starts.
Load MP Tray (A4)/(PLAIN)	There is no paper cassette installed in the printer that matches the paper size and paper type of the print job. Set paper in the MP tray. Press **[GO]** to resume printing. (Note that feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.) If you want to print from a different paper source, press △ or ▽ to display Use alternative? and you can change the source for paper feeding. After selecting a paper source and pressing **[MENU]**, Paper Settings > appears. By pressing the △, the paper type settings menu appears. After setting the correct paper type, press **[OK]** and printing starts.
Low security	This message is displayed when Low was selected in Security Level.
Memory overflow Press GO	The total amount of data received by the printer exceeds the printer's internal memory. Try adding more memory. Press **[GO]** to resume printing. You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
Missing developer unit	The developer unitunit or the toner container is either not installed or incorrectly inserted. Insert the developer unitunit or the toner container securely.
No multi copies Press GO	Multiple copies cannot be printed because the RAM disk is disabled is not installed. There is no available RAM disk space. Delete unnecessary files. Press **[GO]** to print error report.
Paper jam ####################	A paper jam has occurred. The location of the paper jam is indicated in place of the #'s. For details, refer to ***Clearing Paper Jams*** on page ***5-10***.
Paper path error	When one or more optional feeders are installed, this message will appear if any of the paper feeders or the printer cassette upper than the selected one is not properly closed.
Print overrun Press GO	The print job transferred to the printer was too complex to print on a page. Press **[GO]** to resume printing. (A page break may be automatically inserted in some places.) You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
RAM disk error ## Press GO	A RAM disk error has occurred. Look at the error code given in place of ## and refer to ***Storage Error Codes*** on page ***5-8***. To ignore the RAM disk error, press **[GO]**.

Message	Corrective Action
Replace toner	Toner has run out in the toner container. Replace the toner container using a new toner kit. The printer does not operate when this message is displayed.
Toner low	Replace the toner container using a new toner kit.
Unknown toner installed	We will not be liable for any damage caused by the use of third party supplies in this machine.
Unknown toner PC	This message is displayed if the installed toner container's regional specification does not match the printer's. Install the specified toner container.
USB memory error ## Press GO	An error has occurred in the USB flash memory. Look at the error code given in place of ## and refer to ***USB Flash Memory Errors*** on page ***5-8***. To return the printer to the print-ready status, press **[GO]**.
Use alternative? Cassette 1	When the cassette does not contain any paper that matches the print data (paper size and type), this message allows you to specify an alternative cassette to use instead. A paper source number is only displayed when an optional paper feeder is installed. To print from a different paper source, refer to *Paper Feed Mode (Setting the paper feed source)* section in the *Advanced Operation Guide*.
Warning Waste toner box	The waste toner in the drum unit is almost full. Replace the maintenance kit.
Wrong ID	The ID or Password entered for the Security or Administrator function is not correct. Check the ID or Password. For more information, refer to *Security* section and *Admin (Administrator settings)* section in the *Advanced Operation Guide*.
Wrong Password	The password does not match the password set. Enter the correct password. For more information, refer to *Security* section and *Admin (Administrator settings)* section in the *Advanced Operation Guide*.

Storage Error Codes

USB Flash Memory Errors

Code	Meaning
01	The amount of data that can be saved at once has been exceeded. Split the large file into multiple smaller files. The USB flash memory is write protected. Remove the write protection. The USB flash memory is broken. Even if the problem is not solved, format the USB flash memory with the device or use the new USB flash memory compatible with the printer.
04	There is no available space. Delete unnecessary files, etc., in order to free up space.

RAM Disk Errors

Code	Meaning
01	Format error. Try turning the power off and on again.
02	RAM disk mode is Off. Turn RAM disk mode On from the operation panel.
04	No disk space. Purge unnecessary files.
05	Specified file is not on disk.
06	Insufficient printer memory to support the RAM disk system. Expand printer memory.

Ready, Data, and Attention Indicators

The following indicators light during normal operation and whenever the printer needs attention. Depending on the status of lighting, each indicator has the following meaning:

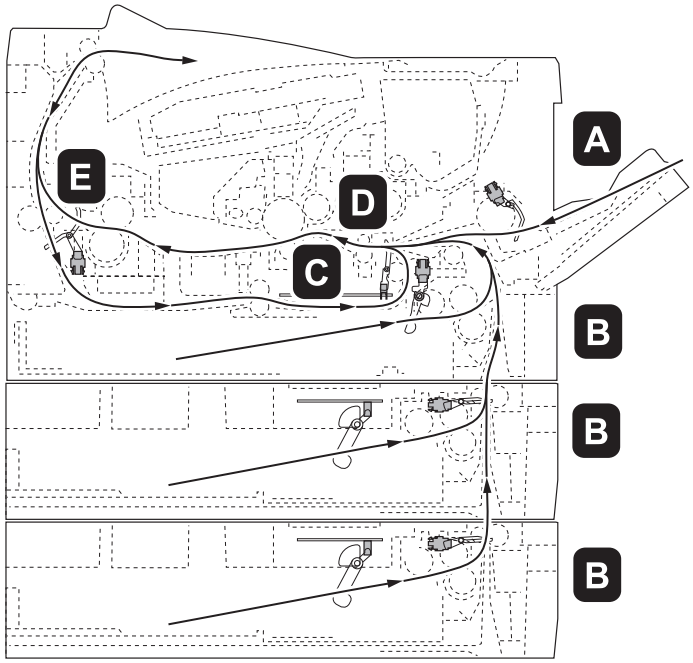
Indicator	Description
Ready	**Flashing.** Indicates an error that you can resolve. Refer to ***Error Messages*** on page ***5-5***. **On.** Indicates that the printer is ready. The printer prints the data it receives. **Off. [Cancel]** was pressed during `Ready` is displayed. Data can be received but will not be printed. To resume printing, press **[Cancel]** again. Printing is canceling. Also, indicates when paper jam occurred, toner has run out, cover is open, and so on.
Data	**Flashing.** Indicates that a data is being received. **On.** Indicates either that data received is being processed before printing starts, or that data received is being written to or read from a RAM disk or USB flash memory.
! Attention	**Flashing.** Indicates that the printer is ready to print when `Please wait` is displayed. Also indicates that the corresponding paper cassette is not installed. Indicates that the printer requires maintenance such as adding paper, cleaning the printer, replacement of maintenance kit, preparing the toner container. **On.** Indicates when paper jam occurred, toner has run out, cover is open, and so on. If the message includes `Press GO`, press **[GO]** to resume printing. The ID or Password entered for the Security or Administrator is not correct. Check the ID or Password, and enter the correct ID or password.

Clearing Paper Jams

If paper jams in the paper transport system, or no paper sheets are fed at all, the `Paper jam` message appears and the location of the paper jam (the component where the paper jam has occurred) is also indicated. Status Monitor or Embedded Web Server RX can indicate the location of the paper jam (the component where the paper jam has occurred). Remove the paper jam. After removing the paper jam, the printer will resume printing.

Possible Paper Jam Locations

The figure below shows the printer's paper paths including the optional paper feeder. The locations where paper jams might occur are also shown here, with each location explained in the table below. Paper jams can occur in more than one component on the paper paths.



Paper jam message	Paper jam location	Description	Reference page
`Paper jam` `MP Tray`	A	Paper jam at the MP tray.	*page **5-12***
`Paper jam` `Cassette 1`	B	Paper jam at the paper cassettes. The cassette number can be 1.	*page **5-13***
`Paper jam` `Duplexer`	C	Paper jam inside the duplexer.	*page **5-14***

Paper jam message	Paper jam location	Description	Reference page
Paper jam Printer	D	Paper jam inside the printer.	*page **5-15***
Paper jam Rear Cover	E	Paper jam at the rear cover.	*page **5-17***

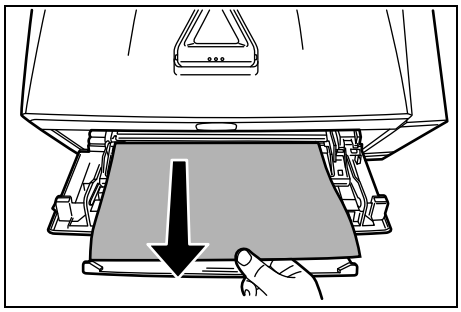
General Considerations for Clearing Jams

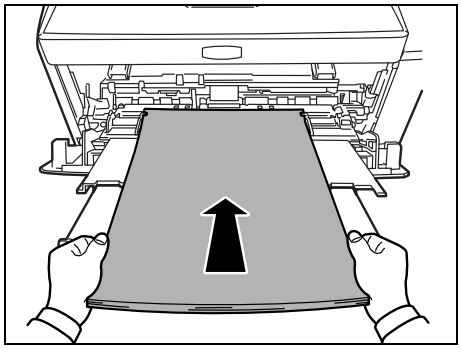
Bear in mind the following considerations when attempting paper jam removal:

CAUTION When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the paper jam recovery.

- If paper jams occur frequently, try using a different type of paper, replace the paper with paper from another ream, or flip the paper stack over. The printer may have problems if paper jams recur after the paper is replaced.
- Whether or not the jammed pages are reproduced normally after printing is resumed, depends on the location of the paper jam.

MP Tray



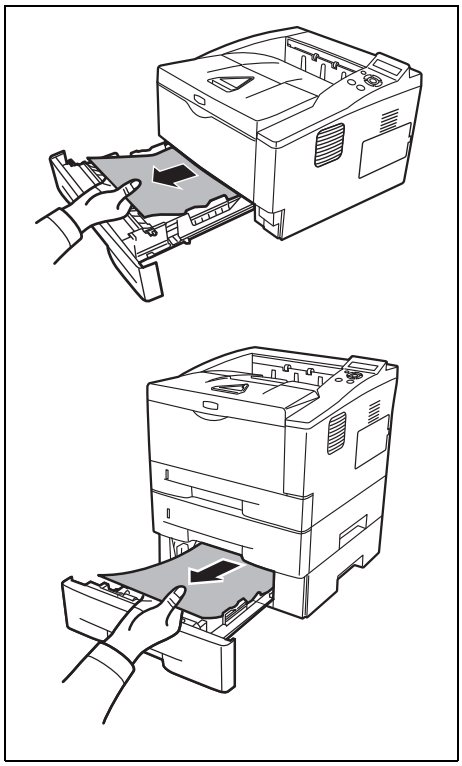


1 Remove the paper jammed at the MP tray.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to ***Inside the Printer*** on page ***5-15***.

2 Reload the MP tray. Open and close the top cover to clear the error and the printer warms up and resumes printing.

Paper Cassette/Paper Feeder



1 Pull out the cassette or optional paper feeder.

2 Remove any partially fed paper.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to ***Inside the Printer*** on page ***5-15***.

Note Check to see if paper is loaded correctly. If not, reload the paper.

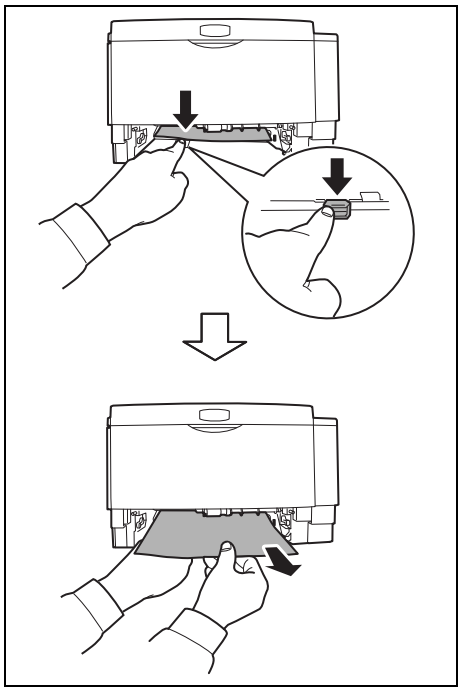
3 Push the cassette back in securely. The printer warms up and resumes printing.

Duplexer

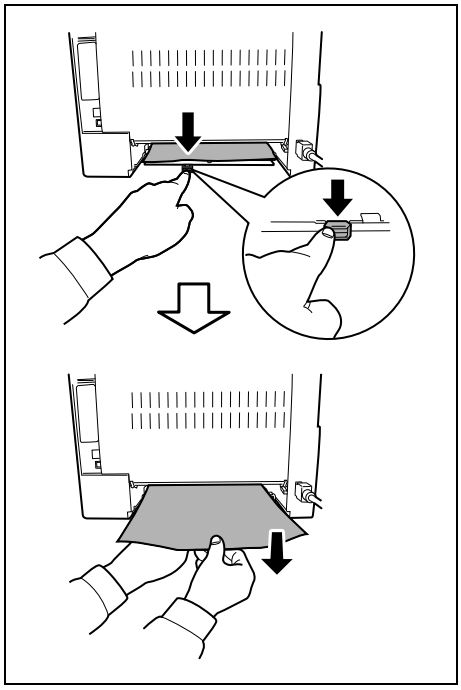
Paper is jammed in the duplexer. Remove the jammed paper using the procedure given below.

1 Pull the paper cassette all the way out of the printer.

2 Open the duplexer's cover in front of the printer and remove any jammed paper.

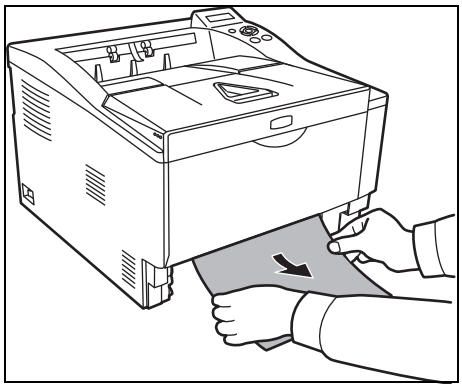


Open the duplexer's cover at the rear of the printer and remove any jammed paper.



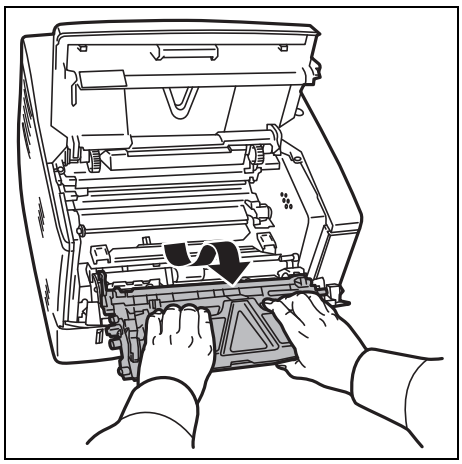
3 Push the cassette back in securely, and open and close the top cover to clear the error. The printer warms up and resumes printing.

Inside the Printer

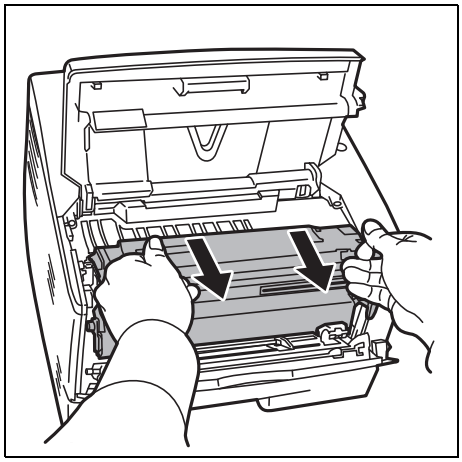


1 Pull the paper cassette all the way out of the printer. Remove any partially fed paper.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to step 2.



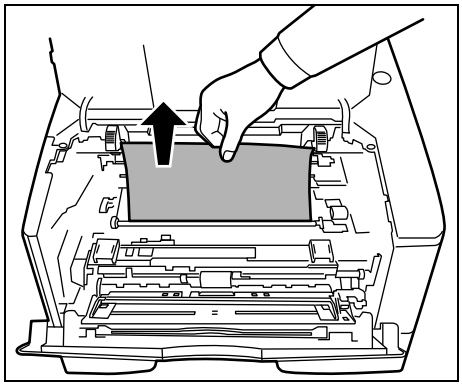
2 Open the top cover and front cover, and lift the developer unit together with the toner container out of the printer.



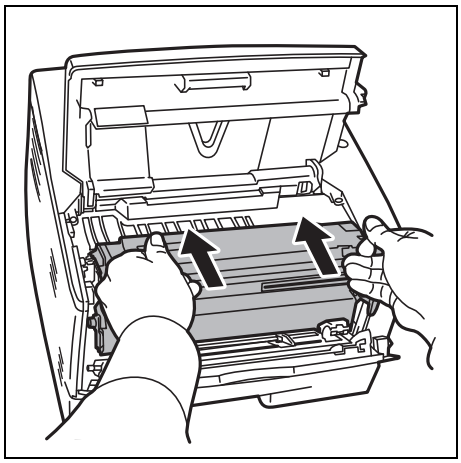
3 Remove the drum unit from the printer by holding the green levers with both hands.

CAUTION The fuser unit inside the printer is hot. Do not touch it, as it may result in burn injury.

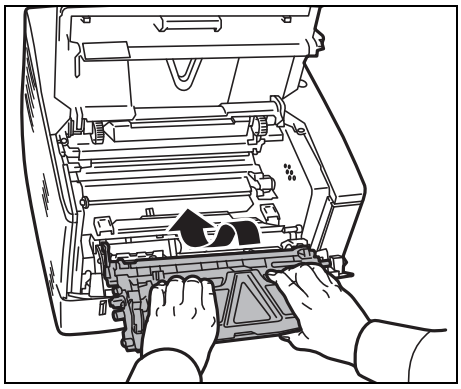
Note The drum is sensitive to light. Never expose the drum unit to light for more than five minutes.



4 If the jammed paper appears to be pinched by rollers, pull it along the normal running direction of the paper.

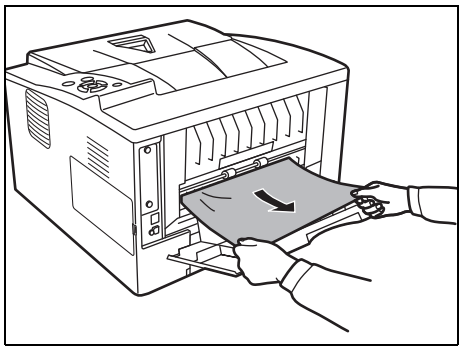


5 Return the drum unit to its position, aligning the guides at both ends with the slots in the printer.



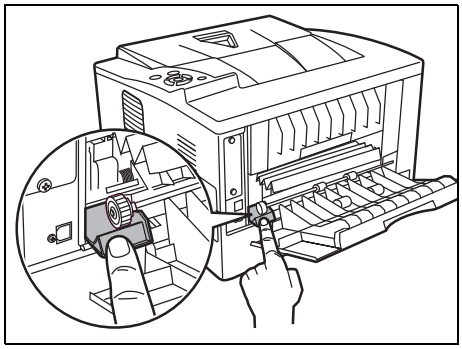
6 Insert the developer unit together with the toner container, back into the machine. Close the top cover and the front cover. The printer warms up and resumes printing.

Rear Cover



1 Open the rear cover and remove the jammed paper by pulling it out.

> **CAUTION** The fuser unit inside the printer is hot. Do not touch it, as it may result in burn injury.



If the paper is jammed inside the fuser unit, open the fuser cover and remove the paper by pulling it out.

2 Close the rear cover, and open and close the top cover to clear the error. The printer warms up and resumes printing.

6 Appendix

This section lists the following information of this printer.

Specifications **6-2**
Environmental Standard Requirements **6-4**

Specifications

Note These specifications are subject to change without notice.

Item		Description
Type		Desktop
Printing Method		Electrophotography, laser scan
Paper Weight	Cassette	60 to 120 g/m² (Duplex: 60 to 105 g/m²)
	MP Tray	60 to 220 g/m²
Paper Type	Cassette	Plain, Preprinted, Bond, Recycled, Rough, Letterhead, Color (Colour), Prepunched, High Quality, Custom 1 to 8
	MP Tray	Plain, Transparency, Preprinted, Labels, Bond, Recycled, Rough, Vellum, Letterhead, Color (Colour), Prepunched, Envelope, Cardstock, Thick paper, High Quality, Custom 1 to 8
Paper Size	Cassette	Envelope C5, Executive, Letter, Legal , A4, B5, A5, A6, ISO B5, Custom, Oficio II, 216 × 340 mm, 16K, Statement, Folio
	Paper Feeder	Envelope C5, Executive, Letter, Legal , A4, B5, A5, ISO B5, Custom, Oficio II, 216 × 340 mm, 16K, Statement, Folio
	MP Tray	Envelope Monarch, Envelope #10, Envelope DL, Envelope C5, Executive, Letter, Legal, A4, B5, A5, A6, B6, Envelope #9, Envelope #6, ISO B5, Custom, Hagaki, Oufuku Hagaki, Oficio II, 216 × 340 mm, 16K, Statement, Folio, Youkei 2, Youkei 4
Printing Speed	Simplex	A4/Letter: 35 ppm/37 ppm
		A5: 17 ppm
	Duplex	A4/Letter: 19 ppm/20 ppm
First Print Time (A4, feed from Cassette)		8 seconds or less
Warm-up Time (22°C/71.6°F, 60 %RH)	Power on	16.5 seconds or less
	Sleep	16.5 seconds or less
Paper Capacity	Cassette (1 to 3)	250 sheets (80 g/m², 11 × 8 1/2"/A4 or smaller)
	MP Tray	50 sheets (80 g/m², 11 × 8 1/2"/A4 or smaller)
Output Tray Capacity	Simplex	250 sheets (80 g/m²)
	Duplex	200 sheets (80 g/m²)
Continuous printing		1 to 999 sheets
Resolution		Fine 1200 mode, Fast 1200 mode, 600 dpi, 300 dpi
Operating Environment	Temperature	10 to 32.5°C/50 to 90.5°F
	Humidity	15 to 80 %
	Altitude	2,500 m/8,202 ft maximum
	Brightness	1,500 lux maximum
Supported OS		Microsoft Windows 2000/XP/Vista/7/8, Windows Server 2003/2008/2012 R2 Mac OS X 10.5 or later

Item		Description
Interface	USB	USB Interface: 1 USB Memory Slot: 1
	Network	Network Interface: 1 (10 BASE-T/100 BASE-TX/1000BASE-T)
	Option	eKUIO slot: 1
PDL		PRESCRIBE
Emulation		PCL 6, KPDL, KPDL (AUTO), Line Printer, IBM Proprinter, EPSON LQ-850
Memory	Standard	256 MB
	Maximum	1280 MB
Dimension (W × D × H)		375 × 393 × 267 mm 14 3/4 × 15 1/2 × 10 1/2"
Weight (without toner container)		12 kg/26.5 lb
Power Requirements		120 V AC, 60 Hz, 8.0 A/220 to 240 V AC, 50/60 Hz, 4.2 A
Power Consumption	Maximum	931 W
	During printing	519 W (U.S.A./Canada), 499 W (European countries)
	During standby	10.6 W (U.S.A./Canada), 11 W (European countries) when EcoFuser is On.
		64.2 W (U.S.A./Canada), 61.8 W (European countries) when EcoFuser is Off.
	Sleep mode	2.9 W (U.S.A./Canada), 2.5 W (European countries)
	Power off	0.1 W or less
Options		Expanded memory, Paper Feeder (250-sheet × 2)

Environmental Standard Requirements

This machine conforms to the following environmental standard requirements.

- Time for switching to Sleep mode (default):
  15 minutes (For Europe), 1 minute (Except for Europe)
- Time for switching to Low power mode (default): 1 minute
- Duplex Printing: Standard Equipment
- Durable paper for feeding: Paper made of 100 % recycled paper

Note Contact your dealer or service representative for recommended paper types.

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We recommend the use of our own brand supplies.
We will not be liable for any damage caused by the use of third party supplies in this machine.

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